PB-230 593

WATER RESOURCES ACTIVITIES IN THE UNITED STATES. SURFACE WATER RESOURCES OF THE UNITED STATES

Select Committee on National Water Resources, U. S. Senate

January 1960

DISTRIBUTED BY:

NTIS

National Technical Information Service
U. S. DEPARTMENT OF COMMERCE
5285 Port Royal Road, Springfield Va. 22151

PB 230 593

86th Congress
2d Session

COMMITTEE PRINT NO. 4

WATER RESOURCES ACTIVITIES
IN THE
UNITED STATES

SURFACE WATER RESOURCES OF THE UNITED STATES

SELECT COMMITTEE ON NATIONAL WATER RESOURCES
UNITED STATES SENATE

PURSUANT TO

S. Res. 48

EIGHTY-SIXTH CONGRESS

RECEIVED
LIBRARY
AUG 2 1968
FWPCA, OHIO BASIN REGIO
4676 COLUMBIA PKWY., CINTI. 0

JANUARY 1960

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
U S Department of Commerce
Springfield VA 22151

Printed for the use of the Select Committee on National Water Resources

---

UNITED STATES
GOVERNMENT PRINTING OFFICE
49883 O WASHINGTON : 1960

101

SELECT COMMITTEE ON NATIONAL WATER RESOURCES

(Pursuant to S. Res. 48, 86th Cong.)

ROBERT S. KERR, Oklahoma, *Chairman*

THOMAS H. KUCHEL, California, *Vice Chairman*

DENNIS CHAVEZ, New Mexico
ALLEN J. ELLENDER, Louisiana
WARREN G. MAGNUSON, Washington
CLINTON P. ANDERSON, New Mexico
HENRY M. JACKSON, Washington
CLAIR ENGLE, California
PHILIP A. HART, Michigan
GALE W. McGEE, Wyoming
FRANK E. MOSS, Utah

MILTON R. YOUNG, North Dakota
ANDREW F. SCHOEPPEL, Kansas
FRANCIS CASE, South Dakota
THOS. E. MARTIN, Iowa
HUGH SCOTT, Pennsylvania

JAMES E. MURRAY, Montana, *Ex Officio*

PAUL McBRIDE, *Chief Clerk*

THEODORE M. SCHAD, *Staff Director*

STATEMENT BY THE CHAIRMAN

JANUARY 13, 1960.

To the Members of the Select Committee on National Water Resources:

Although water is no respecter of political boundaries we must, in considering actions to be taken in the development of water resources in the future, be guided by State boundaries because of our division of responsibilities among all levels of government, including the States.

Accordingly, in addition to the data on water resources by river basins that is being assembled as background for our studies of the Nation's water resources under the provisions of Senate Resolution 48, I asked the Geological Survey to provide the committee with summarized data in tabular form on the surface water resources of each State. The Geological Survey has compiled data on average, maximum, and minimum discharges in cubic feet per second and average annual runoff in acre-feet at key points in and at the borders of each State. Maps are included showing the locations of the stations for which data are furnished. Altogether, data are summarized from 1,075 stations throughout the United States, which is about 15 percent of the total stream gaging stations at which records are kept by the Geological Survey and reported on annually in a series of water supply papers entitled, "Surface Water Supply of the United States."

This information will be of great interest to you, to the other Senators, and to others concerned with water resources, and, therefore, I am having it printed as one of our committee prints.

ROB'T S. KERR,
Chairman, Select Committee on
National Water Resources.

COMMUNICATIONS

NOVEMBER 16, 1959.

Mr. THOMAS B. NOLAN,
Director, U.S. Geological Survey,
The Department of the Interior, Washington, D.C.

MY DEAR MR. NOLAN: The Senate Select Committee on National Water Resources is most appreciative of the work being done by the U.S. Geological Survey in response to the request for a report on national water resources and problems contained in my letter of June 16, 1959. The committee staff has kept in close touch with your staff and has informed me of the excellent work that has gone into the report. I understand that the report is nearing completion, and I look forward with great interest to receiving it as soon as possible.

In addition to the data on water resources which I understand is being presented in your report by river basins, the committee would like to have a summarized presentation of surface water resources by States, and I am writing to ask that such a presentation be prepared for us. We would like this to include a map of each State showing the average flow of the rivers schematically, with the width of the rivers in proportion to the flow. Each map would be supported by a table showing average, maximum, and minimum flows at gaging stations nearest the State borders and at other significant gages elsewhere in the States. Location of the gaging stations should be indicated on the maps, and the maps should be drawn in such a way as to facilitate printing as a committee print.

I understand that the details of the nature of the presentation have been discussed with Mr. Oltman of your staff by Mr. Schad.

With great appreciation for the assistance which the Geological Survey has given to the committee staff, I am,

Sincerely yours,

ROB'T S. KERR, *Chairman.*

U.S. DEPARTMENT OF THE INTERIOR,
OFFICE OF THE SECRETARY,
Washington, D.C., January 11, 1960.

Hon. ROBERT S. KERR,
U.S. Senate,
Washington, D.C.

DEAR SENATOR KERR: We are forwarding a report titled "Surface Water Resources of the United States," which was prepared in answer to your letter request of November 16, 1959.

Sincerely yours,

FRED A. SEATON,
Secretary of the Interior.

CONTENTS

	Page	
Statement by the chairman	III	
Communications	IV	
Figure 1.—Map of the United States	VI	
Introduction	1	
Maps	1	
Tables	1	
	Map	Table
Surface water resources of—		
Alabama	4	5
Alaska	6	7
Arizona	8	9
Arkansas	10	11
California	12	13
Colorado	14	15
Connecticut. (*See* Massachusetts.)		
Delaware. (*See* Maryland.)		
Florida	16	17
Georgia	18	19
Hawaii	20	21
Idaho	22	23
Illinois	24	25
Indiana	26	27
Iowa	28	29
Kansas	30	31
Kentucky	32	33
Louisiana	34	35
Maine	36	37
Maryland (including Delaware and District of Columbia)	38	39
Massachusetts (including Connecticut and Rhode Island)	40	41
Michigan	42	43
Minnesota	44	45
Mississippi	46	47
Missouri	48	49
Montana	50	51
Nebraska	52	53
Nevada	54	55
New Hampshire. (*See* Vermont.)		
New Jersey	56	57
New Mexico	58	59
New York	60	61
North Carolina	62	63
North Dakota	64	65
Ohio	66	67
Oklahoma	68	69
Oregon	70	71
Pennsylvania	72	73
Rhode Island. (*See* Massachusetts.)		
South Carolina	74	75
South Dakota	76	77
Tennessee	78	79
Texas	80	81
Utah	82	83
Vermont (including New Hampshire)	84	85
Virginia	86	87
Washington	88	89
West Virginia	90	91
Wisconsin	92	93
Wyoming	94	95

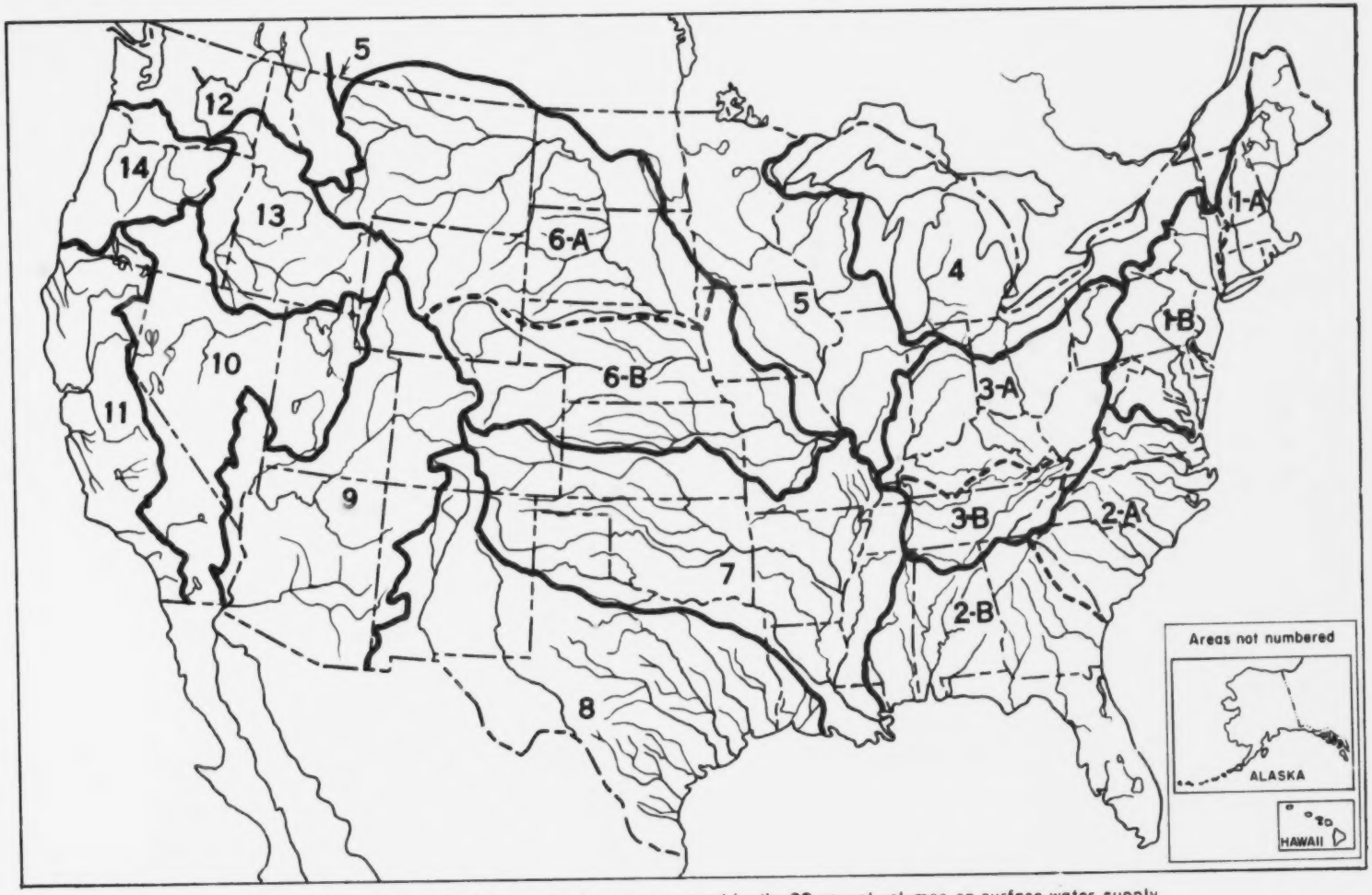


Figure 1.--Map of the United States showing areas covered by the 20 annual volumes on surface water supply.

SURFACE WATER RESOURCES OF THE UNITED STATES

INTRODUCTION

This is a summary of the surface-water resources of the United States. Brief tabulations of the average discharges of principal streams in and along the borders of each State are presented.

A map and table for each State show average discharge and extremes of discharge for principal streams at selected stream-gaging stations. The average discharge, although only a partial clue to the water supply available in a stream, is useful for making rapid appraisals of surface-water resources. It is a simple guide to the potential of a stream at a specific site and when charted on a map is a convenient guide to the geographic distribution of major water supplies.

Sufficient gaging-station records are tabulated and charted to provide an adequate reference to the principal surface-water supplies of each State. The number of records listed for a State depends on the size of the State and the number of principal streams in or bounding the State. The total of 1,075 gaging-station records included for the entire United States is about 15 percent of the total gaging-station records now being collected by the U.S. Geological Survey in cooperation with States and other Federal agencies.

The maps and tables of data are arranged in the alphabetical order of the State names. The explanation that follows will aid in understanding the maps and tables.

MAPS

Locations of selected gaging stations are indicated by a solid circle. A number next to the circle identifies the gaging-station record in the table. The width of principal streams drawn to scale on each map shows the average discharge of the stream along its course. For some maps two discharge scales are necessary.

TABLES

Data listed are map reference number, river and station, drainage area, period of gaging-station record used in computing the average discharge, average discharge, and extremes of discharge.

The reference numbers assigned to gaging stations on each map are in the same order as those used in the water-supply papers, "Surface Water Supply of the United States," published by the U.S. Geological Survey. The areas covered by the 20 annual volumes which contain the surface-water records are shown on figure 1. Within each area, the gaging stations are numbered consecutively in downstream order, starting with the most upstream station on the main stem. Stations on tributaries, which enter the main stem between gaging stations, are listed in order between the main-stem gaging stations.

Only the river name and city or town name are listed under the heading "River and station." For example, the gaging-station record published in annual water supply papers as North Platte River near Northgate, Colo., is condensed to North Platte, Northgate. A gaging station that is referenced to a city outside the State for which records are tabulated is indicated by the State abbreviation in parenthesis.

The drainage area is taken from the latest published water supply paper. For some stations no drainage area is listed because the area is indeterminate.

The period of record (calendar years) used in computing the average discharge in the table is listed in the column headed "Period of record." The period of record is identical with that listed (or used) in the average discharge paragraph in the latest published water supply paper.

Average annual discharge in cubic feet per second and equivalent annual runoff in acre-feet is listed in the column headed "Average discharge for period of record." These figures are taken from the latest published water supply paper or, if unpublished, are computed for this report. Table 1 provides a comparison of cubic feet per second and acre-feet with the units of gallons per minute, gallons per day, and million gallons. Unit flow rates are commonly presented in gallons per minute or per day in water works practice.

TABLE 1.—*Equivalence of discharge and volume units*

Discharge:

1 cubic foot per second = 449 gallons per minute = 0.646 million gallons per day

1 cubic foot per second for 1 year = 724 acre-feet = 236 million gallons

Volume: 1 acre-foot = 43,560 cubic feet = 0.326 million gallons

From these equivalents it can be seen that 1 cubic foot per second, flowing for 1 day, will yield roughly 2 acre-feet. Also, an annual runoff of 1 million acre-feet will give an average flow of 893 million gallons per day.

A city of 100,000 population with average per capita water use of 100 gallons per person per day would need an average supply of about 15½ cubic feet per second. With the same rate of use a city of 1 million population would need an average supply of about 155 cubic feet per second. In some Western States irrigation water is required at the rate of at least 2 acre-feet of water per acre of crop. Thus, with storage, a steady flow of 1 cubic foot per second could irrigate 362 acres. However, because irrigation water is normally applied to a field intensively for a day or so about three times per year the actual flow rate for 362 acres may be several cubic feet per second. This brief discussion of municipal and agricultural water requirements is a clue to the amount of use that a given average discharge can sustain.

The maximum and minimum discharges, taken from the latest published water supply paper, for the period of record are listed in the columns headed "Extremes." The maximum listed for most records is the largest instantaneous discharge for the period of gaging station operation although for some records it may be the largest average daily discharge. The minimum, likewise, may be either an instantaneous or a daily discharge. For some gaging stations the minimum is subject to such manmade regulation that it has been omitted as meaningless. The extremes listed were experienced during the period of record. For some stations greater or lesser discharges than those listed are known to have occurred prior to installation of the gage but they have not been listed here. Those who want more information should refer to the water supply papers. Table 2 shows the water supply paper numbers in which records collected for the Nation since 1950 have been published.

TABLE 2.—*Numbers of water supply papers containing records of streamflow measurements in the United States, 1950–57*

Year	Part																		
	1A	1B	2A	2B	3A	3B	4	5	6A	6B	7	8	9	10	11	12	13	14	Hawaii	Alaska
1951	1201	1202	1203	1204	1205	1206	1207	1238	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1466
1952	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1466
1953	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1466
1954	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1486
1955	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1486
1956	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	[1] 1449	1486
1957	1501	[1] 1502	[1] 1503	1504	1505	1506	[1] 1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	[1] 1569	[1] 1500

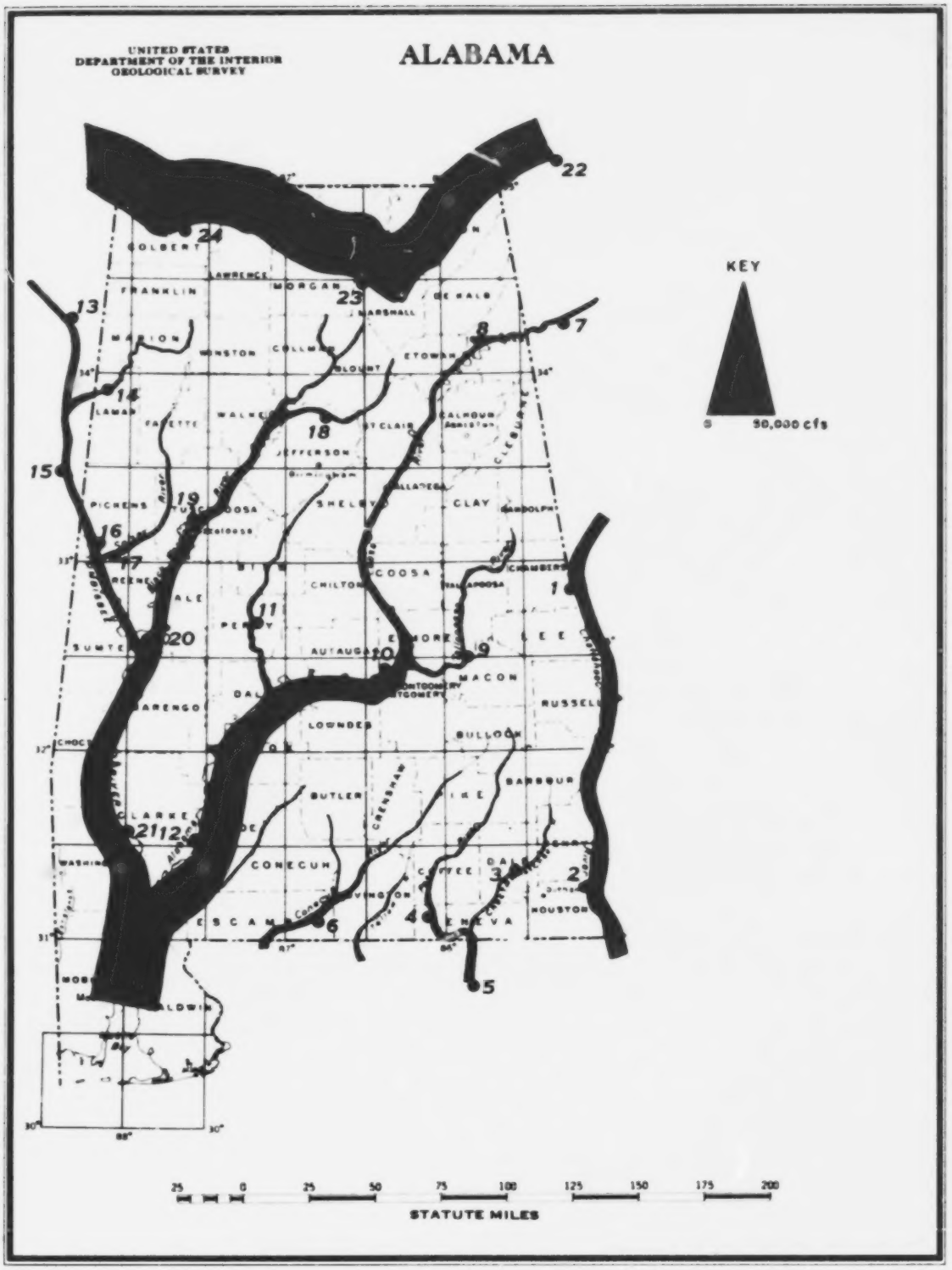
[1] Not printed as of Dec. 1, 1959.

The Geological Survey has compiled summaries of all gaging-station records collected up to September 30, 1950. Table 3 shows the numbers of water supply papers which contain these summaries. Those who do not need surface-water facts in the detail published in the regular water supply papers are advised to consult the "compilation reports" to obtain, in one volume, all regional streamflow records up to 1950.

TABLE 3.—*Numbers of water supply papers containing compilation of records of surface waters of the United States through September 1950*

Part	No.	Part	No.
1A	1301	8	[1] 1312
1B	[1] 1302	9	1313
2A	1303	10	[1] 1314
2B	[1] 1304	11A	[1] 1315B
3A	1305	11B	1315A
3B	1306	12	1316
4	1307	13	1317
5	1308	14	1318
6A	1309	Alaska	1372
6B	1310	Hawaii	1319
7	1311		

[1] Not printed as of Dec. 1, 1959.


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ALABAMA
KEY
0 50,000 cfs
22
24
23
13
7
8
14
18
15
19
16
17
20
11
10
9
1
12
21
2
3
4
6
5
COLBERT
LAWRENCE
MORGAN
MARSHALL
DE KALB
FRANKLIN
MARION
WINSTON
CULLMAN
BLOUNT
ETOWAH
LAMAR
FAYETTE
WALKER
ST CLAIR
CALHOUN
JEFFERSON
PICKENS
TUSCALOOSA
SHELBY
TALLADEGA
CLAY
RANDOLPH
GREENE
HALE
CHILTON
COOSA
CHAMBERS
TALLAPOOSA
SUMTER
AUTAUGA
ELMORE
LEE
MACON
MONTGOMERY
BARBOUR
RUSSELL
MARENGO
DALLAS
LOWNDES
BULLOCH
CHOCTAW
BUTLER
CRENSHAW
CLARKE
CONECUH
WASHINGTON
COVINGTON
ESCAMBIA
GENEVA
HOUSTON
MOBILE
BALDWIN
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

ALABAMA

Flow of Selected Streams

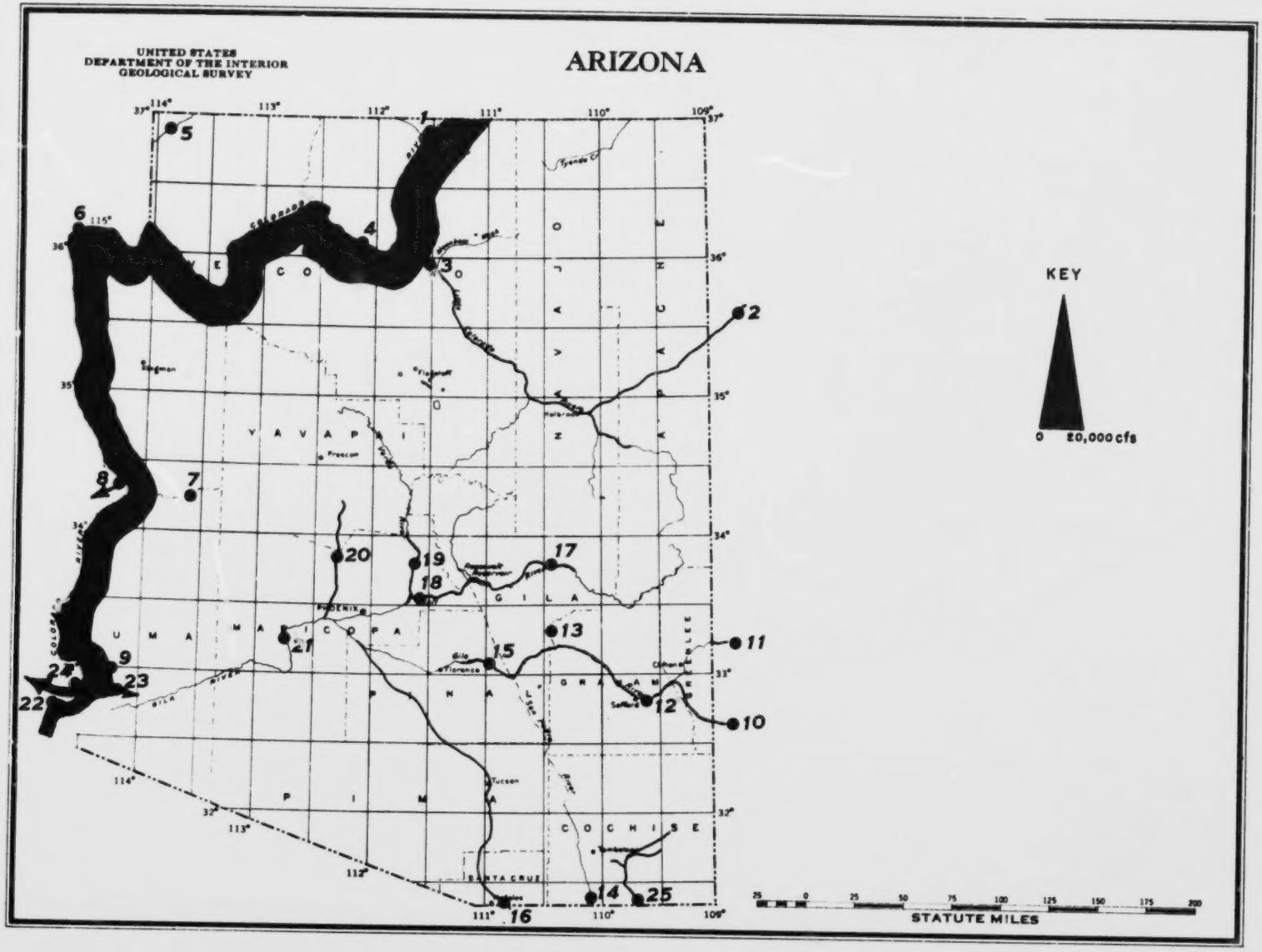
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Chattahoochee, West Point (Ga.)	3,550	1896-1910 1912-57	5,539	4,010,000	134,000	224
2	Chattahoochee, Columbia	8,040	1928-57	10,520	7,616,000	203,000	1,210
3	Choctawhatchee, Newton	683	1922-24 1925-27 1935-57	971	703,000	25,800	61
4	Pea, Samson	1,187	1904-12 1923-35 1935-57	1,725	1,248,800	uncertain	41
5	Choctawatchee, Bruce (Fla.)	4,384	1930-57	6,941	5,025,000	69,600	1,480
6	Conecuh, Brooklyn	2,460	1935-57	3,688	2,670,000	8,120	497
7	Coosa, Rome (Ga.)	4,040	1928-31 1937-57	6,104	4,419,000	65,000	940
8	Coosa, Leesburg	5,270	1937-57	8,105	5,868,000	73,200	1,130
9	Tallapoosa, Tallassee	3,320	1928-57	4,647	3,364,200	115,000	10
10	Alabama, Montgomery	15,100	1927-57	23,200	16,796,000	256,000	2,180
11	Cahaba, Sprott	1,378	1944-57	2,059	1,490,600	85,200	188
12	Alabama, Claiborne	22,000	1930-57	31,350	22,696,000	227,000	4,450
13	Tombigbee, Amory (Miss.)	1,941	1937-57	2,966	2,147,200	126,000	45
14	Buttahatchie, Sulligent	472	1939-57	739	535,000	33,000	32
15	Tombigbee, Columbus (Miss.)	4,490	1900-04 1905-12 1928-57	6,019	4,357,600	148,000	138
16	Tombigbee, Cochrane	5,990	1939-57	7,909	5,733,100	163,000	165
17	Sipsey, Pleasant Ridge	753	1939-57	1,116	807,900	21,900	17
18	Locust Fork, Trafford	625	1930-57	988	715,290	60,700	8
19	Black Warrior, Tuscaloosa	4,828	1894-1902 1928-57	7,656	5,542,600	223,000	37
20	Tombigbee, Coatopa	15,400	1928-57	21,560	15,609,000	217,000	50
21	Tombigbee, Leroy	19,100	1928-57	26,120	18,910,000	201,000	500
22	Tennessee, Chattanooga (Tenn.)	21,400	1874-1957	37,090	26,851,700	410,000	1,200
23	Tennessee, Whitesburg	25,610	1924-36 1937-57	42,010	30,414,000	293,000	700
24	Tennessee, Florence	30,810	1894-1957	50,620	36,647,000	444,000	250

ALASKA
KEY
0 10,000 cfs
YUKON, COPPER, & KUSKOKWIM RIVERS
(Not to scale)
0 40,000 cfs
Estimated from power studies
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NOTE
No data on streamflow in
western and northern Alaska
ARCTIC OCEAN
BEAUFORT SEA
BERING SEA
GULF OF ALASKA
PACIFIC OCEAN
CANADA
YUKON
ALASKA

ALASKA

Flow of Selected Streams

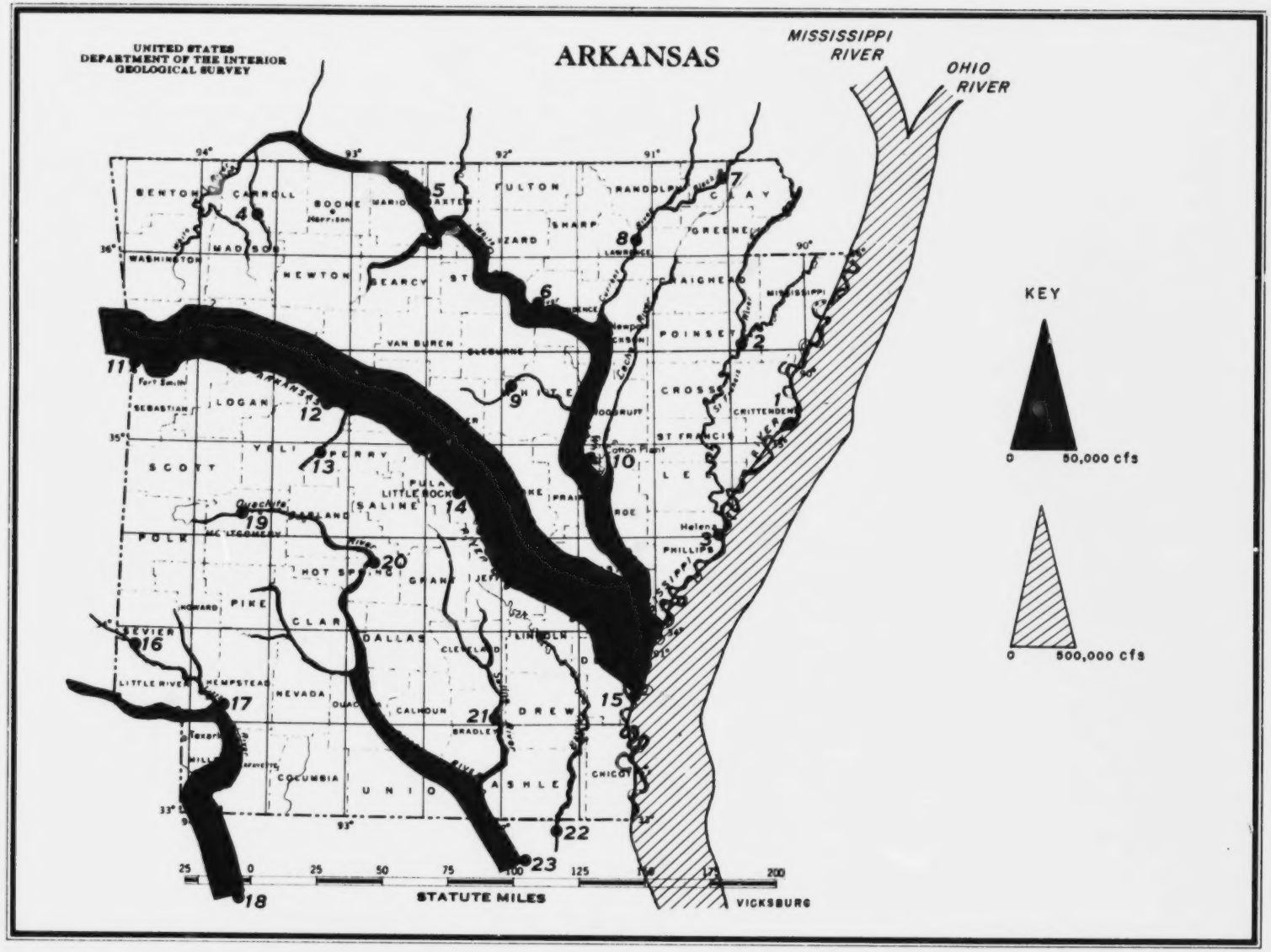
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Winstanley Creek, Ketchikan	13	1936-38 1947-56	152	110,000	1,660	6
2	Harding, Wrangell	95	1951-56	704	509,700	9,820	-
3	Cascade Creek, Petersburg	23	1917-28 1946-56	244	176,600	3,280	11
4	Long, Juneau	32	1915-24 1927-32 1951-56	455	329,400	6,000	22
5	Carlson Creek, Juneau	24	1951-56	320	231,700	4,390	-
6	Mahoney Creek, Ketchikan	6	1920-25 1926-33 1947-56	108	78,190	2,530	1.5
7	Falls Creek, Ketchikan	36	1916-25 1927-33 1946-56	463	335,200	5,500	19
8	Sawmill Creek, Sitka	39	1920-22 1928-42 1945-56	488	353,300	7,100	9
9	Maksoutof, Port Alexander	26	1951-56	403	291,800	2,820	50
10	Gakona, Gakona	620	1940-56	901	652,300	10,300	0
11	Tazlina, Glennallen	2,670	1949-50 1951-56	4,120	2,983,000	47,000	-
12	Klutina, Copper Center	880	1949-56	1,667	1,207,000	9,040	-
13	Copper, Chitina	20,600	1955-56	32,910	23,890,000	159,000	3,830
14	Kasilof, Kasilof	738	1949-56	2,279	1,650,000	9,090	-
15	Kenai, Cooper Landing	634	1947-56	2,644	1,914,000	20,600	190
16	Matanuska, Palmer	2,070	1949-56	4,047	2,930,000	24,000	234
17	Susitna, Gold Creek	6,160	1949-56	9,735	7,048,000	58,100	-
18	Newhalen, Iliamna	3,300	1951-56	8,971	6,495,000	29,600	-
19	Kuskokwim, Crooked Creek	31,100	1951-56	42,940	31,090,000	260,000	-
20	Yukon, Eagle	113,500	1911-13 1950-56	68,790	49,800,000	282,000	-
21	Tanana, Northway Junction	3,280	1949-56	2,135	1,546,000	8,860	-
22	Tanana, Big Delta	13,500	1948-52 1953-56	14,700	10,640,000	62,800	3,800
23	Salcha, Salchaket	1,170	1948-56	1,801	1,304,000	36,500	-
24	Chena, Fairbanks	1,980	1948-56	1,500	1,086,000	24,200	-
25	Nenana, Healy	1,910	1950-56	3,594	2,602,000	28,500	-


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ARIZONA
KEY
0 20,000 cfs
STATUTE MILES
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
COCONINO
YAVAPAI
MARICOPA
PINAL
GILA
GRAHAM
GREENLEE
COCHISE
PIMA
SANTA CRUZ
YUMA
MOHAVE
NAVAJO
APACHE
Colorado River
Gila River
Little Colorado River
Tucson
Phoenix
Prescott
Flagstaff
Holbrook
Globe
Safford
Douglas
Nogales
Yuma
Kingman

Arizona

Flow of Selected Streams

No.	River and station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Colorado River, Lees Ferry	107,900	1911-57	18,240	13,210,000	220,000	750
2	Puerco River, Gallup (N. Mex.)	558	1940-45	8.6	6,230	3,700	0
3	Little Colorado River, Cameron	26,500	1947-57	206	149,100	24,900	0
4	Colorado River, Grand Canyon	137,800	1922-57	17,240	12,480,000	127,000	700
5	Virgin River, Littlefield	5,090	1929-57	238	172,300	22,000	50
6	Colorado River, Hoover Dam	167,500	1934-57	14,600	10,570,000	51,200	0
7	Bill Williams River, Alamo	4,730	1939-57	100	72,400	65,100	2.2
8	Colorado River aqueduct, Parker Dam	-	1939-57	261	189,000	1,080	0
9	Colorado River, Imperial Dam	184,600	1934-57	12,990	9,404,000	40,800	1,450
10	Gila River, Virden (N. Mex.)	3,203	1927-57	158	114,400	41,700	1
11	San Francisco River, Glenwood (N.Mex.)	1,653	1927-57	61.0	44,160	7,800	2.5
12	Gila River, Solomon	7,896	1914-57	445	322,200	100,000	11
13	San Carlos River, Peridot	1,027	1929-57	45.7	33,090	40,600	0
14	San Pedro River, Palominas	741	1930-33 1935-40 1950-57	34.3	24,830	22,000	0
15	Gila River, Kelvin	18,011	1911-57	494	357,600	132,000	1
16	Santa Cruz River, Nogales	533	1912-22 1929-57	21.2	15,350	12,000	0
17	Salt River, Chrysotile	2,849	1924-57	581	420,600	52,900	49
18	Salt River, Stewart Mountain Dam	6,232	1930-57	836	605,200	11,700	0
19	Verde River, Bartlett Dam	6,188	1888-1957	693	501,700	45,800	0
20	Agun Fria River, Lake Pleasant Dam	1,459	1914-19 1933-57	94.7	68,560	105,000	0
21	Gila River, Gillespie Dam	49,620	1941-57	29.3	21,210	85,000	0
22	Colorado River, International Boundary	243,000	1950-57	5,951	4,308,000	25,390	570
23	Gila Gravity Main Canal, Imperial Dam	-	1943-57	441	319,300	1,740	0
24	All American Canal above Pilot Knob Wasteway	-	1941-57	4,983	3,608,000	10,600	0
25	Whitewater Draw, Douglas	1,023	1915-19 1930-33 1935-46 1947-57	11.5	8,300	5,060	0

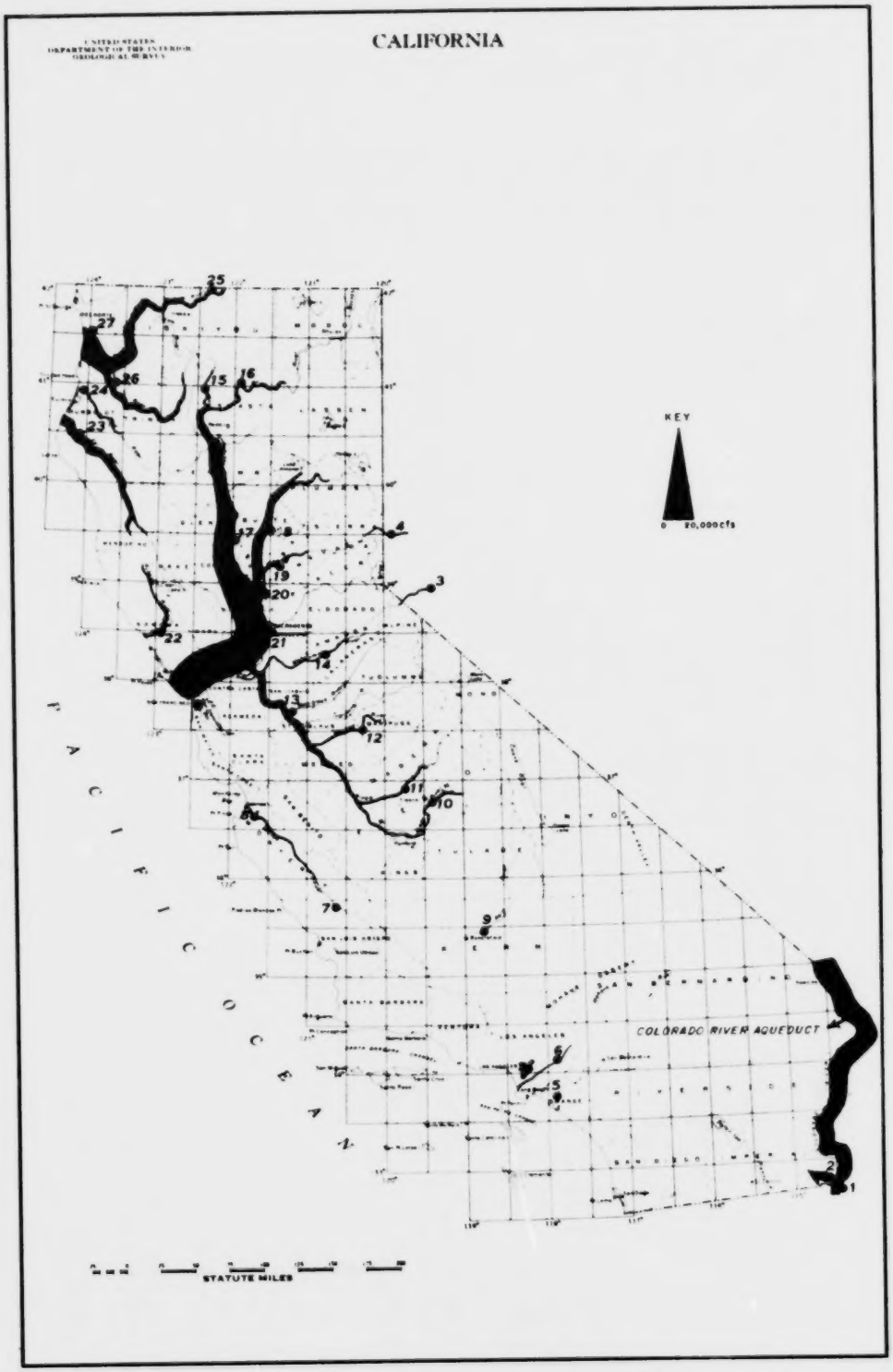

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
ARKANSAS
MISSISSIPPI RIVER
OHIO RIVER
KEY
0 50,000 cfs
0 500,000 cfs
STATUTE MILES
VICKSBURG
BENTON
CARROLL
BOONE
MADISON
WASHINGTON
NEWTON
SEARCY
VAN BUREN
FULTON
SHARP
RANDOLPH
CLAY
GREENE
CRAIGHEAD
POINSETT
CROSS
ST FRANCIS
CRITTENDEN
LEE
PHILLIPS
SEBASTIAN
LOGAN
YELL
PERRY
SCOTT
POLK
PIKE
HOT SPRING
GRANT
JEFFERSON
LINCOLN
DALLAS
CLEVELAND
DREW
NEVADA
CLARK
HOWARD
SEVIER
LITTLE RIVER
HEMPSTEAD
COLUMBIA
UNION
ASHLEY
CHICOT
LAWRENCE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

ARKANSAS

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Mississippi, Memphis, Tenn.	932,800	1933-57	456,000	330,100,000	1,980,000	79,200
2	St. Francis, Marked Tree	-	1934-57	1,665	1,205,000	7,120	63
3	Mississippi, Helena	941,800	1879-1957*	458,000**	331,600,000	(2,041,000 est.)	81,000
4	Kings, Berryville	532	1939-57	591	427,900	59,000	0.1
5	White, Flippen	6,067	1928-57	6,248	4,523,000	215,000	90
6	White, Batesville	11,062	1937-57	12,290	8,898,000	324,000	580
7	Black, Corning	1,749	1938-57	1,802	1,305,000	48,600	224
8	Black, Black Rock	7,323	1929-31 1939-57	8,313	6,018,000	103,000	1,730
9	Little Red, Heber Springs	1,141	1927-57	1,890	1,368,000	117,000	0
10	White, De Valls Bluff	23,431	1949-57	28,350	20,520,000	154,000	3,230
11	Arkansas, Van Buren	150,483	1927-57	31,190	22,580,000	850,000	300
12	Arkansas, Dardanelle	153,707	1937-57	37,270	26,980,000	683,000	416
13	Fourche La Fave, Nimrod	680	1936-57	922	667,500	36,100	0
14	Arkansas, Little Rock	158,201	1927-57	41,380	29,960,000	536,000	850
15	Mississippi, Vicksburg, Miss.	1,144,500	1928-57	559,300	404,916,000	2,080,000	65
16	Little, Horatio	2,674	1930-57	3,939	2,852,000	120,000	1
17	Red, Fulton	52,380	1927-57	18,730	13,560,000	338,000	390
18	Red, Shreveport (La.)	60,613	1928-57	25,460	18,430,000	303,000	690
19	Ouachita, Mt. Ida	410	1941-57	776	561,800	54,800	2.3
20	Ouachita, Malvern	1,562	1925-26 1928-57	2,361	1,709,000	140,000	40
21	Saline, Rye	2,062	1937-57	2,648	1,917,000	57,400	3.5
22	Bayou Bartholomew, Beckman (La.)	1,645	1928-31 1938-57	1,686	1,221,000	10,400	38
23	Ouachita, Monroe (La.)	15,298	1932-57	17,820	12,901,000	101,000	

* Intermittent record - from U.S. Miss. River Commission Report
** Estimated - from U.S. Miss. River Commission Report


CALIFORNIA
KEY
0 20,000cfs
COLORADO RIVER AQUEDUCT
STATUTE MILES

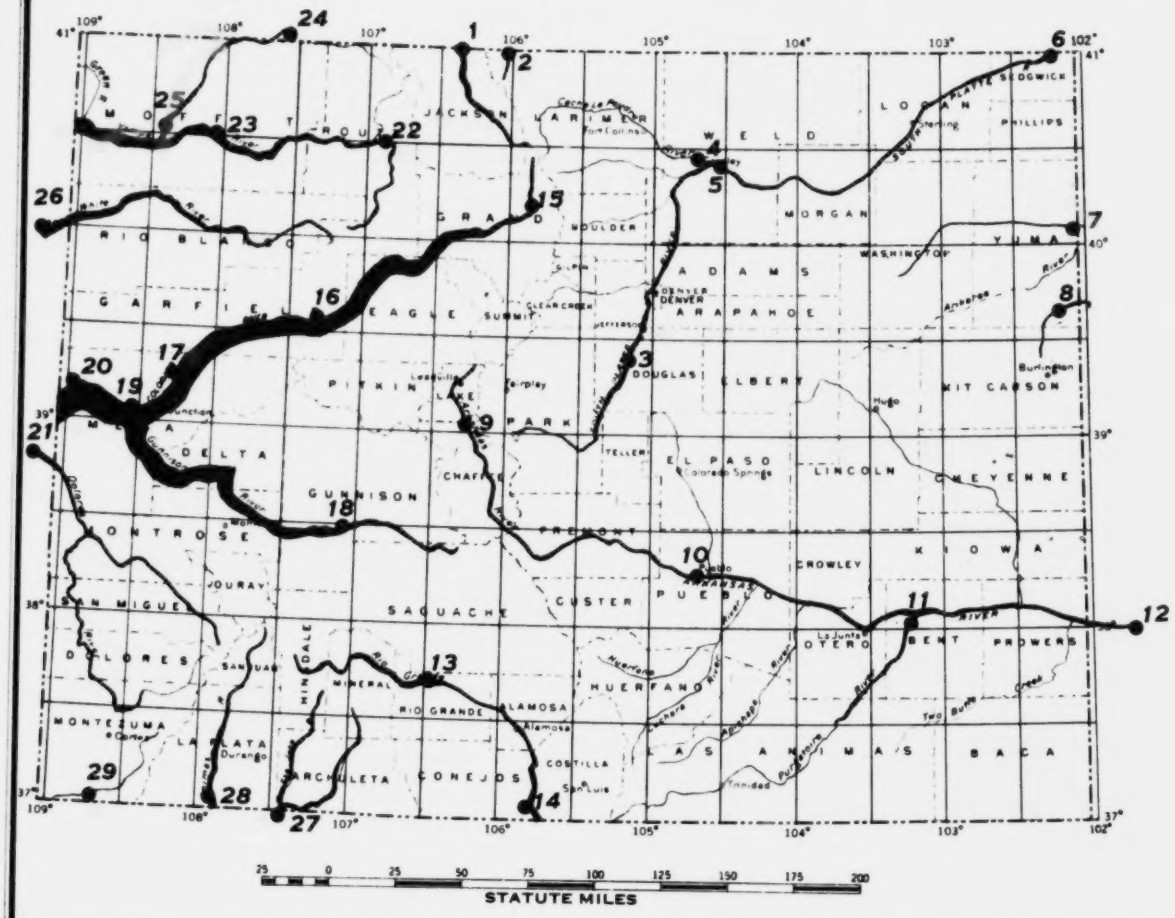
CALIFORNIA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Colorado, international boundary	243,000	1950-57	5,951	4,308,000	25,390	570
2	All-American Canal, Pilot Knob wasteway	-	1941-57	4,983	3,608,000	10,600	0
3	West Walker, Hudson	201	1914-24	201	145,500	2,700	13
			1947-57				
4	Truckee, Reno	1,070	1906-19	814	589,300	20,800	18
			1947-57				
5	Santa Ana, Santa Ana	-	1940-57	16.2	11,730	46,300	0
6	San Gabriel, Azusa	211	1895-1957	151	109,300	65,700	0
7	Salinas, Paso Robles	389	1939-57	96.0	69,500	14,200	0
8	Salinas, Spreckles	4,231	1930-57	465	336,600	75,000	0
9	Kern, Kern Canyon powerhouse	2,327	1893-1906	947	685,600	36,000	74
			1908-57				
10	Kings, Piedra	1,694	1895-1957	2,296	1,662,000	91,000	10
11	San Joaquin, Friant	1,675	1907-57	2,342	1,696,000	77,200	5.5
12	Merced, Exchequer	1,035	1901-57	1,355	981,000	47,700	0
13	San Joaquin, Vernalis	14,010	1923-24	4,763	3,448,000	79,000	184
			1929-57				
14	Mokelumne, Mokelumne Hill	538	1928-57	944	683,400	33,700	5
15	Sacramento, Delta	427	1945-57	1,105	800,000	37,000	141
16	Pit, Montgomery Creek	5,170	1945-57	3,750	2,715,000	37,100	570
17	Sacramento, Butte City	-	1940-57	12,400	8,977,000	170,000	1,050
18	Feather, Oroville	3,611	1902-57	5,862	4,244,000	230,000	300
19	Yuba, Englebright Dam	1,104	1941-57	2,632	1,905,000	148,000	0
20	Feather, Nicolaus	-	1943-57	8,057	5,833,000	357,000	0
21	Sacramento, Sacramento	-	1948-57	24,040	17,400,000	104,000	5,590
22	Russian, Guerneville	1,342	1940-57	2,156	1,561,000	90,100	61
23	Eel Scotia	3,113	1911-14	6,646	4,812,000	541,000	10
		3,113	1916-57	6,646	4,812,000	541,000	10
24	Mad, Arcata	485	1911-13	1,641	1,188,000	77,800	16
		485	1950-57	1,641	1,188,000	77,800	16
25	Klamath Copco	4,370	1923-57	1,768	1,280,000	12,000	83
26	Trinity, Hoopa	2,846	1911-13	5,613	4,064,000	190,000	162
		2,846	1931-57	5,613	4,064,000	190,000	162
27	Klamath, Klamath	12,100	1911-25	17,370	12,580,000	425,000	1,340
		12,100	1950-57	17,370	12,580,000	425,000	1,340

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

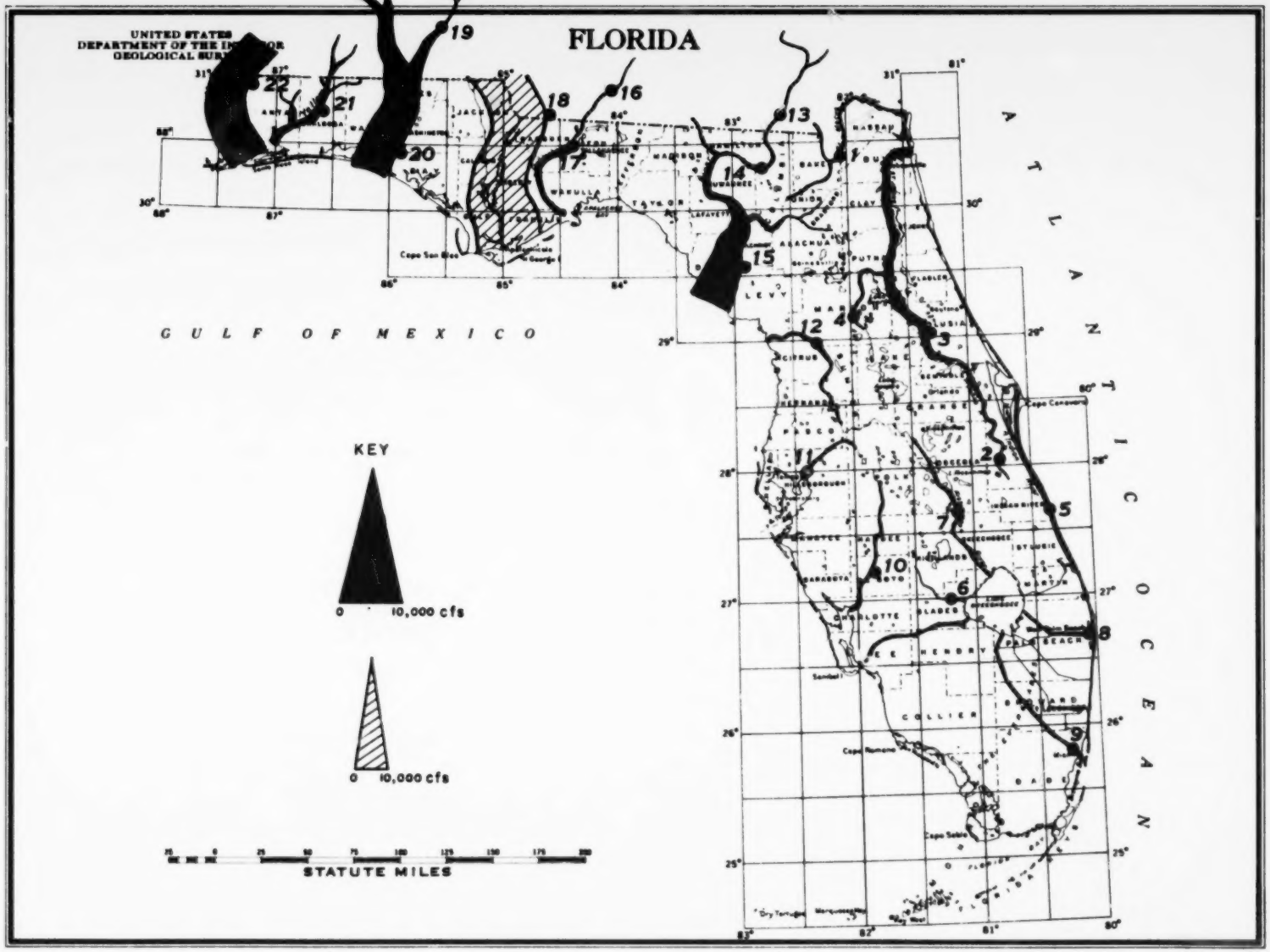
COLORADO



COLORADO

Flow of Selected Streams

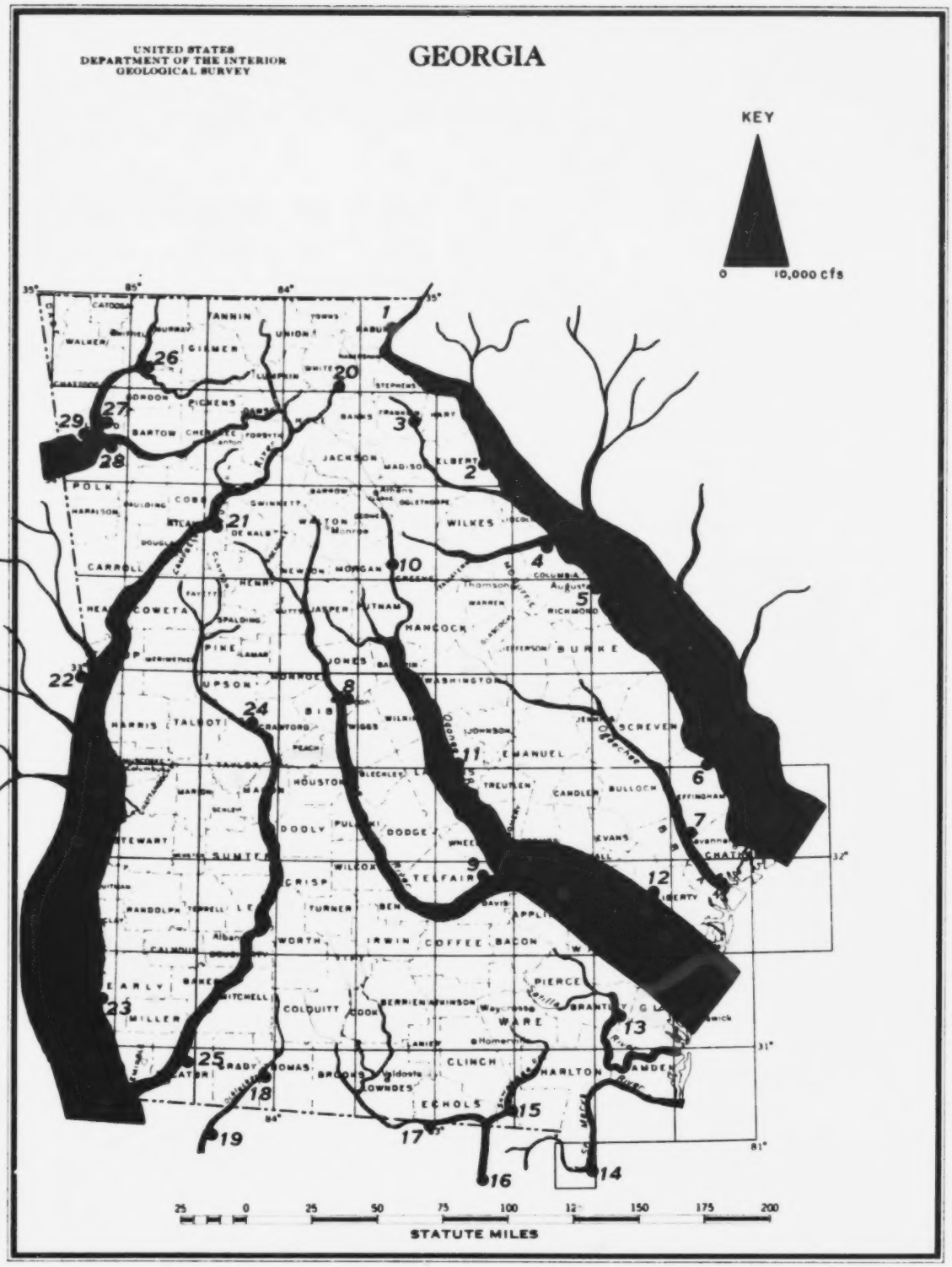
No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	North Platte, Northgate	1,440	1915-57	452	327,200	6,720	19
2	Laramie, Jelm (Wyo.)	297	1904-5 1911-57	162	117,300	4,200	5.6
3	South Platte, South Platte	2,550	1887-91 1895-97 1898-99 1900-57	363	262,800	6,320	14
4	Cache La Poudre, Greeley	1,840	1914-19 1924-57	86.6	62,700	4,220	0.8
5	South Platte Kersey	9,500	1901-3 1905-57	714	516,900	31,000	28
6	South Platte, Julesburg	22,800	1902-57	455	329,400	31,300	0
7	North Fork Republican, Colorado-Nebraska State line	320	1931-57	48.9	35,400	2,110	0
8	South Fork Republican, Hale	1,760	1951-57	26.5	19,190	3,790	0
9	Arkansas, Granite	427	1910-57	349	252,700	5,360	-
10	Arkansas, Pueblo	4,686	1886-87 1894-1957	722	522,700	103,000	18
11	Purgatoire, Las Animas	3,503	1922-31 1948-57	157	113,700	70,000	0
12	Arkansas, Syracuse (Kans.)	25,763	1902-6 1921-57	394	285,200	62,000	0
13	Rio Grande, Del Norte	1,320	1889-1957	930	673,300	18,000	69
14	Rio Grande, Lobatos	7,700	1899-1957	661	478,500	13,100	0
15	Colorado, Grand Lake	103	1904-18 1933-57	97.9	70,880	1,840	1.6
16	Colorado, Glenwood Springs	4,560	1899-1957	2,812	2,036,000	30,100	286
17	Colorado, Cameo	8,060	1933-57	4,032	2,919,000	36,000	700
18	Gunnison, Iola	2,490	1899-1903 1937-51	886	641,500	7,140	130
19	Gunnison, Grand Junction	8,020	1896-99 1901-6 1916-57	2,676	1,937,000	35,700	106
20	Colorado, Colorado-Utah State line	17,900	1951-57	6,088	4,408,000	56,800	960
21	Dolores, Cisco (Utah)	-	1950-57	759	549,500	11,100	3.4
22	Yampa, Steamboat Springs	604	1904-6 1909-57	473	342,400	6,820	4
23	Yampa, Maybell	3,410	1916-57	1,587	1,149,000	17,900	2
24	Little Snake, Dixon (Wyo.)	988	1910-23 1938-57	534	386,600	9,600	0.2
25	Little Snake, Lilly	3,730	1921-57	586	424,200	14,200	0
26	White, Watson (Utah)	4,020	1923-57	727	526,300	8,160	53
27	San Juan, Rosa (N. Mex.)	1,990	1896-97 1910-57	1,238	896,300	25,000	39
28	Animas, Cedar Hill (N. Mex.)	1,090	1933-57	918	664,600	13,100	90
29	Mancos, Towaoc	550	1920-43 1951-57	58.8	42,570	5,300	0


FLORIDA
UNITED STATES
DEPARTMENT OF THE IN
GEOLOGICAL SUR
GULF OF MEXICO
ATLANTIC OCEAN
KEY
0 10,000 cfs
0 10,000 cfs
STATUTE MILES
Cape San Blas
Cape Canaveral
Cape Romano
Cape Sable
Key West
Dry Tortugas
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

FLORIDA

Flows of Selected Streams

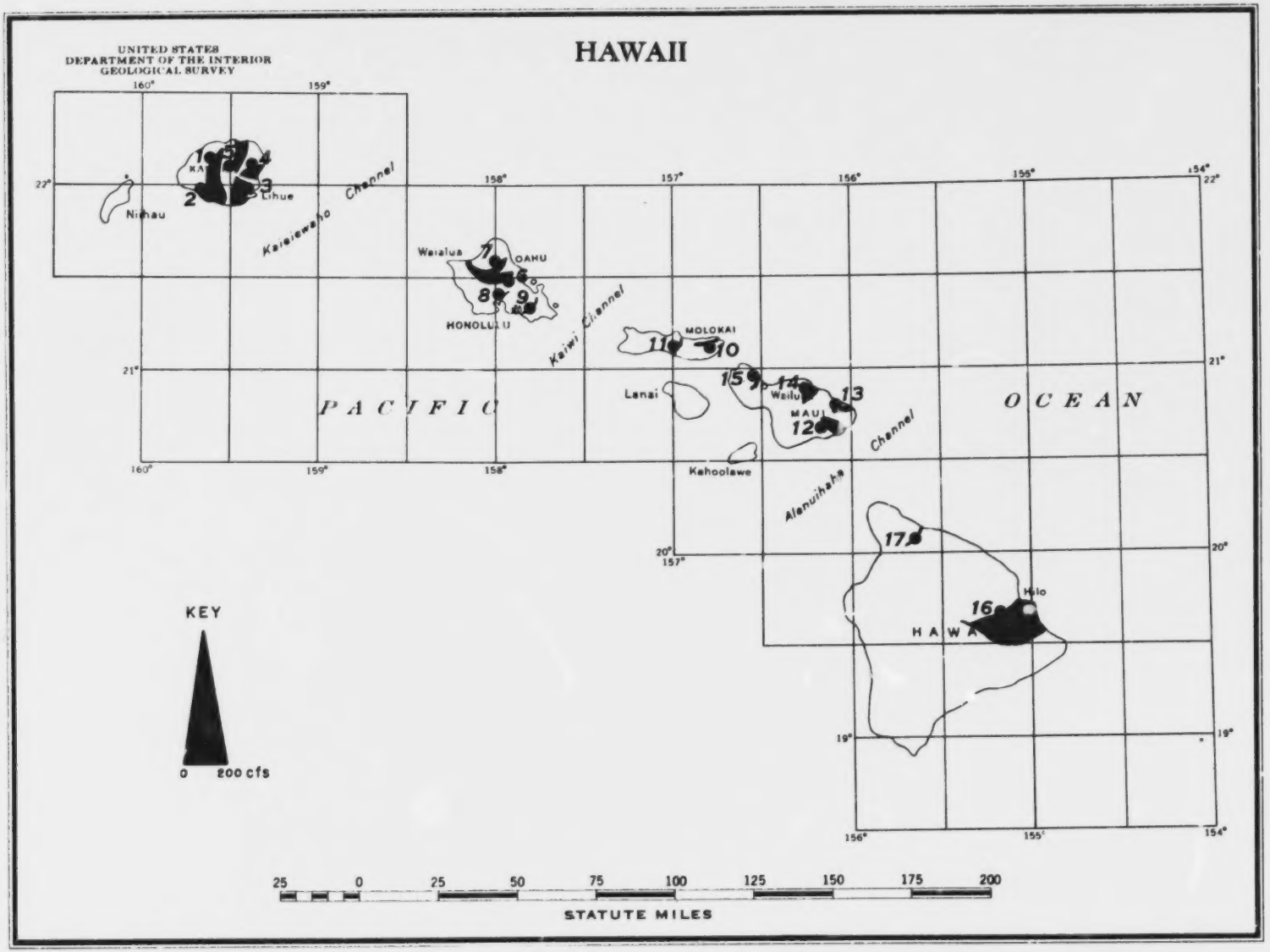
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	St. Marys, Macclenny	720	1926-57	632	458,000	28,100	12
2	St. Johns, Melbourne	874	1939-57	789	571,000	18,000	-109 (reverse flow)
3	St. Johns, DeLand	2,960	1934-57	3,111	2,250,000	17,100	-3,030 (reverse flow)
4	Oklawaha, Ocala	1,100	1930-57	384	271,000	1,810	12
5	Main Canal, Vero Beach	-	1950-57	-	-	1,450	3.7
6	Fisheating Creek, Palmdale	435	1931-57	256	185,000	31,400	0
7	Kissimmee, Lake Kissimmee	1,609	1933-57	1,142	827,000	8,820	-1,190 (reverse flow)
8	West Palm Beach Canal, West Palm Beach	-	1939-57	-	-	5,320	-
9	Miami Canal, Hialeah	-	1940-57	-	-	4,170	-390 (reverse flow)
10	Peach, Arcadia	1,370	1931-57	1,231	891,000	36,200	37
11	Hillsborough, Tampa	650	1938-57	583	422,000	9,690	0
12	Withlacoochee, Holder	1,710	1931-57	1,058	766,000	6,740	112
13	Suwannee, Fargo (Ga.)	1,260	1927-31 1937-57	1,011	732,000	13,800	0
14	Suwannee, White Springs	1,990	1906-08 1927-57	1,637	1,180,000	28,500	4.8
15	Suwannee, Wilcox	9,500	1951-57	6,850	4,960,000	74,700	-
16	Ochlockonee, Thomasville (Ga.)	550	1937-57	426	308,000	72,000	2.6
17	Ochlockonee, Havana	1,020	1926-57	912	660,000	55,900	17
18	Apalachicola, Chattahoochee	17,100	1928-57	21,130	15,300,000	293,000	5,300
19	Choctawhatchee, Newton (Ala.)	683	1922-24 1925-57 1935-57	971	703,000	25,800	61
20	Choctawhatchee, Bruce	4,384	1930-57	6,941	5,020,000	69,600	1,480
21	Yellow, Milligan	624	1938-57	1,139	825,000	28,000	143
22	Escambia, Century	3,817	1934-57	6,052	4,380,000	73,900	600


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
GEORGIA
KEY
0
10,000 cfs
STATUTE MILES

GEORGIA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Chatooga, Clayton	207	1939-56	584	423,000	29,000	88
2	Savannah, Calhoun Falls (S.C.)	2,876	1896-97 1930-31 1938-56	4,810	3,480,000	96,500	492
3	N. F. Broad, Carnesville	119	1942-44 1954-56	107	77,500	4,700	16
4	Broad, Bell	1,430	1928-31 1937-56	1,654	1,200,000	79,400	108
5	Savannah, Augusta	7,508	1884-91 1896-1906 1927-31 1938-56	10,360	7,500,000	350,000	648
6	Savannah, Clyo	9,850	1937-56	10,830	7,840,000	128,000	2,830
7	Ogeechee, Eden	2,650	1937-57	2,037	1,470,000	26,300	131
8	Ocmulgee, Macon	2,240	1893-1911 1931-57	2,591	1,880,000	83,500	128
9	Ocmulgee, Lumb City	5,180	1936-57	5,251	3,800,000	70,000	808
10	Oconee, Greensboro	1,090	1903-13 1914-31 1937-57	1,425	1,030,000	66,800	59
11	Oconee, Dublin	4,400	1898-1912 1931-57	4,845	3,510,000	96,700	333
12	Altamaha, Doctortown	13,600	1931-57	12,420	8,990,000	178,000	1,430
13	Satilla, Atkinson	2,880	1931-57	1,915	1,390,000	68,100	25
14	St. Marys, Macclenny (Fla.)	720	1926-57	632	458,000	28,100	12
15	Sawanee, Fargo	1,260	1927-31 1937-57	1,011	732,000	13,800	0
16	Sawanee, White Springs (Fla.)	1,990	1906-[illegible] 1927-57	1,637	1,180,000	28,500	4.8
17	Altapaha, Statenville	1,400	1932-57	898	650,000	27,300	16
18	Ochlockonee, Thomasville	550	1937-57	426	308,000	72,000	2.6
19	Ochlockonee, Havana (Fla.)	1,020	1926-57	912	660,000	55,900	17
20	Chattahoochee, Leaf	150	1940-57	380	275,000	14,100	72
21	Chattahoochee, Atlanta	1,450	1928-31 1937-57	2,413	1,750,000	59,000	296
22	Chattahoochee, West Point (Ala.)	3,550	1896-1910 1912-57	5,539	4,010,000	134,000	224
23	Chattahoochee, Columbia (Ala.)	8,040	1928-57	10,520	7,620,000	203,000	1,210
24	Flint, Culledon	1,850	1911-22 1928-31 1937-57	2,341	1,690,000	92,000	92
25	Flint, Bainbridge	7,350	1908-13 1929-57	8,244	5,970,000	83,200	1,860
26	Coosawattee, Pine Chapel	856	1938-57	1,403	1,020,000	40,200	220
27	Oostanaula, Rome	2,120	1939-57	3,427	2,480,000	47,000	408
28	Etowah, Rome	1,810	1939-57	2,472	1,790,000	55,000	360
29	Coosa, Rome	4,040	1928-31 1937-57	6,104	4,420,000	65,000	940


HAWAII
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
160°
159°
158°
157°
156°
155°
154°
22°
21°
20°
19°
Niihau
Lihue
Kaiciewaho Channel
Waialua
OAHU
HONOLULU
Kaiwi Channel
MOLOKAI
Lanai
Kahoolawe
Wailuku
MAUI
Alenuihaha Channel
Hilo
HAWAII
PACIFIC
OCEAN
1
2
3
4
5
7
8
9
10
11
12
13
14
15
16
17
KEY
0 200 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

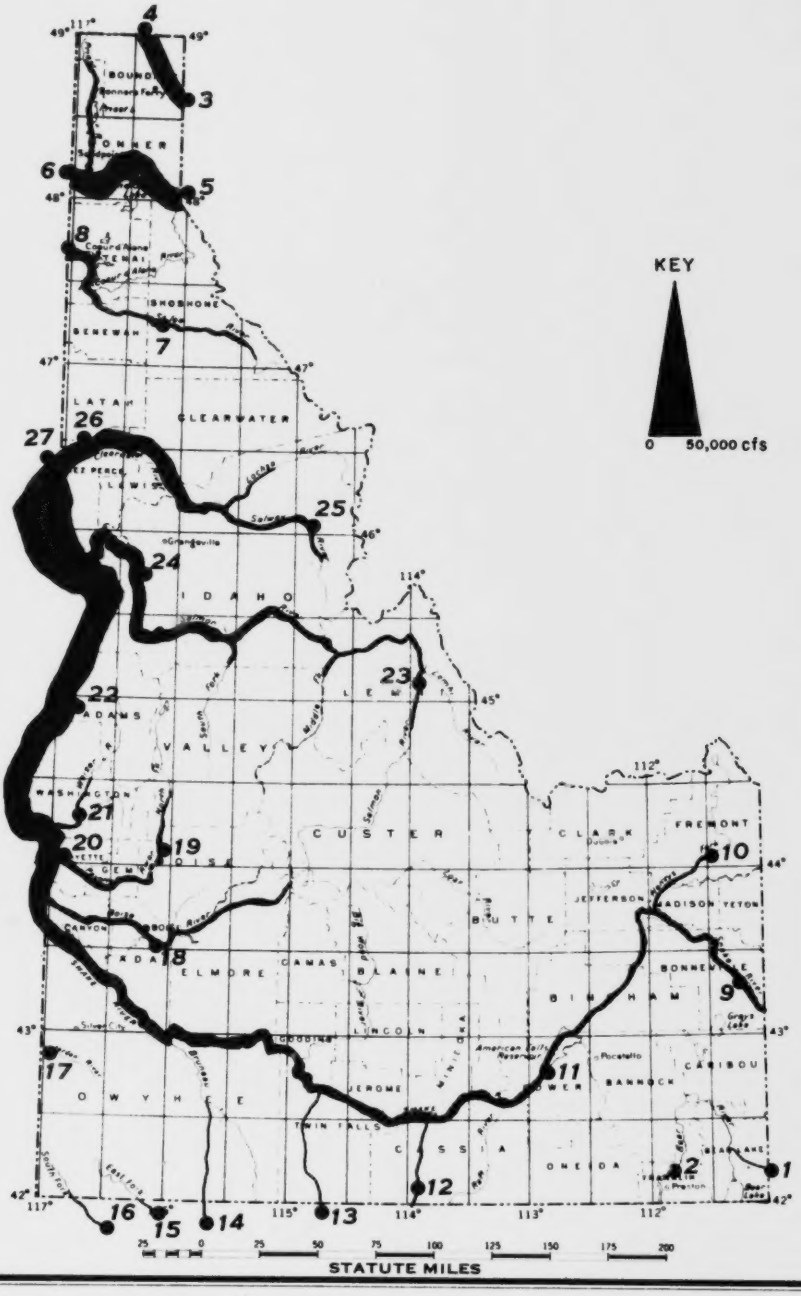
HAWAII

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
KAUAII							
1	Kawaikoi, Waimea	4.1	1919-55	33.4	24,200	10,700	1.15
2	Waimea, Waimea	57.8	1944-55	76.3	55,200	37,100	.02
3	Hanapepe, Eleele	18.8	1917-20 1927-55	84.5	61,200	16,100	5.1
4	East Branch Wailua, Lihue	6.2	1920-55	46.6	33,700	5,170	4.4
5	Hanalei, Hanalei	7.4	1918-51 1952-55	72.3	52,300	14,200	9.0
OAHU							
6	North Fork Kaukonahua, Wahiawa	4.9	1947-55	33.9	24,500	3,710	2.04
7	South Fork Kaukonahua, Wahiawa	5.2	1947-55	24.8	18,000	4,390	.42
8	Poamoho, Wahiawa	1.8	1947-55	5.09	3,690	1,420	0
9	Waimao, Honolulu	1.0	1926-55	1.8	1,300	931	0
MOLOKAI							
10	Halawa, Halawa	4.5	1918-32 1938-55	29.2	21,100	8,390	1.24
11	Kaunakakai, Kaunakakai	6.48	1950-55	1.6	1,160	1,730	0
MAUI							
12	Oheo, Kipahulu	5.8	1927-29 1932-35 1940-55	56.2	40,700	9,280	0
13	Hanawi, Nahiku	0.8	1922-55	21.2	15,300	5,570	1.7
14	Puhokamoa, Huelo	2.6	1917-55	32.3	23,400	2,480	0.2
15	Kahakuloa, Honokohau	3.4	1940-43 1948-55	17.9	12,900	3,080	3.02
HAWAII							
16	Wailuku, Hilo	125	1929-40 1941-47 1948-55	269	195,000	63,400	.25
17	Waiilikahi, Waimanu	0.4	1939-55	10.0	7,240	842	.23

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

IDAHO



IDAHO

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Bear River, Border (Wyo.)	2,490	1937-57	414	299,700	3,680	30
2	Bear, Preston	4,300	1944-57	885	640,700	8,500	14
3	Kootenai, Leonia	11,740	1928-57	13,620	9,860,000	123,000	996
4	Kootenai, Porthill	13,700	1904	15,650	11,330,000	125,000	1,380
			1927-28				
			1928-57				
5	Clark Fork, Cabinet	22,067	1928-57	21,050	15,240,000	153,000	270
6	Pend Oreille, Newport (Wash.)	24,200	1903-41	25,150	18,210,000	136,000	2,200
			1952-57				
7	St. Joe, Calder	1,030	1911-12	2,324	1,683,000	53,000	91
			1920-57				
8	Spokane, Post Falls	3,840	1913-57	6,113	4,426,000	50,100	120
9	Snake, Irwin	5,225	1949-57	6,918	5,008,000	31,800	19
10	Henrys Fork, Ashton	1,040	1902-08	1,358	983,200	6,220	65
			1926-57				
11	Snake, Neely	13,600	1926-57	6,804	4,926,000	48,400	50
12	Goose Creek, Oakley	600	1911-16	45.4	32,870	1,670	0
			1919-57				
13	Salmon Falls Creek, San Jacinto (Nev.)	1,450	1910-16	134	97,010	2,060	2.8
			1918-57				
14	Bruneau, Rowland (Nev.)	-	1913-18	121	87,600	1,440	5
15	Owyhee, Owyhee (Nev.)	458	1939-57	147	106,400	2,710	2
16	South Fork Owyhee, Whiterock (Nev.)	-	1955-57	195	141,200	3,420	0
17	Jordan Creek, Jordan Valley (Oreg.)	440	1945-52	217	157,100	3,250	0
			1955-57				
18	Boise, Boise	2,680	1895-96	3,059	2,215,000	35,500	0
			1897-1903				
			1905-6				
			1907-16				
			1954-57				
19	North Fork Payette, Banks	933	1947-57	1,379	998,400	8,830	36
20	Payette, Payette	2,680	1925-57	3,010	2,179,000	22,800	0.7
21	Weiser, Weiser	1,460	1895-96	1,240	897,700	19,900	14
			1898-99				
			1900-4				
			1911-14				
			1952-57				
22	Snake, Oxbow	72,800	1923-57	17,750	12,850,000	89,700	4,890
23	Salmon, Salmon	3,760	1912-16	1,918	1,389,000	16,500	242
			1919-57				
24	Salmon, Whitebird	13,550	1910-17	10,888	7,883,000	106,000	1,580
			1919-57				
25	Selway, Lowell	1,910	1929-57	3,642	2,637,000	48,900	100
26	Clearwater, Spalding	9,570	1926-57	15,072	10,910,000	177,000	500
27	Snake, Clarkson (Wash.)	103,200	1915-57	48,990	35,470,000	369,000	10,600

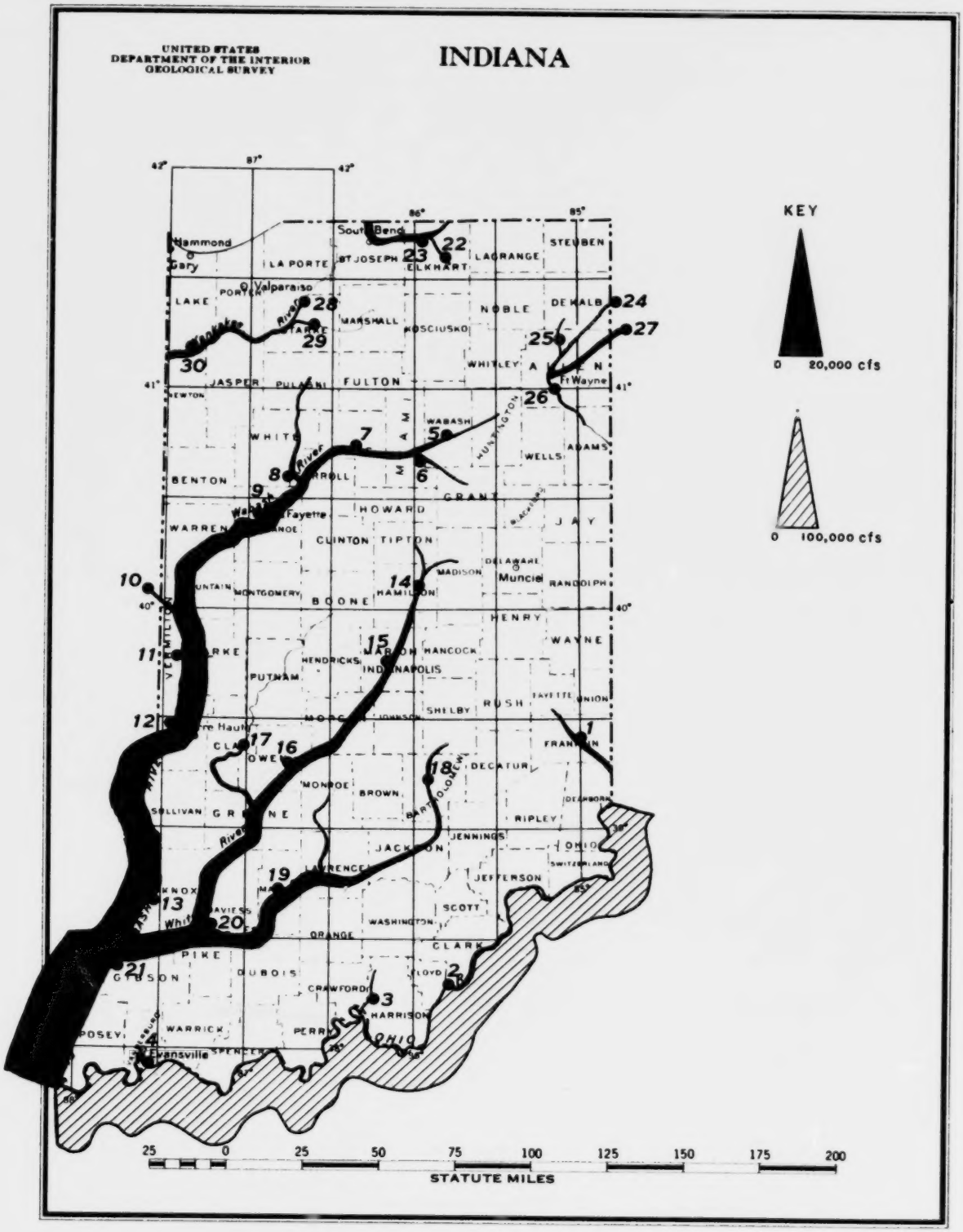
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ILLINOIS

ILLINOIS

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Vermilion, Danville	1,280	1930-57	930	673,000	48,700	2
2	Wabash, Riverton (Ind.)	13,100	1938-57	11,060	8,010,000	201,000	858
3	Wabash, Vincennes (Ind.)	13,700	1929-57	11,260	8,150,000	189,000	770
4	Embarrass, Ste. Marie	1,540	1909-12 1914-57	1,220	883,000	44,800	1
5	Wabash, Mount Carmel	28,600	1927-57	26,390	19,100,000	305,000	1,620
6	Little Wabash, Wilcox	1,130	1914-57	894	647,000	47,000	0
7	Little Wabash, Carmi	3,090	1939-57	2,523	1,830,000	39,400	0.6
8	Saline, Junction	1,040	1939-57	1,200	869,000	37,400	0.9
9	Ohio, Metropolis	203,000	1934-57	262,800	190,000,000	1,850,000	20,600
10	Cache, Forman	242	1924-57	301	218,000	9,630	0
11	Mississippi, Clinton (Iowa)	85,600	1939-57	46,280	33,500,000	225,400	12,000
12	Pecatonica, Shirland	2,540	1939-57	1,556	1,130,000	15,200	350
13	Rock, Rockton	6,290	1903-05 1914-18 1940-57	3,809	2,760,000	32,500	630
14	Rock, Joslin	9,520	1939-57	5,251	3,800,000	46,200	834
15	Green, Geneseo	958	1936-57	532	385,000	8,900	27
16	Mississippi, Keokuk (Iowa)	119,000	1878-1957	61,180	44,300,000	314,000	5,000
17	Bear, Marcelline	348	1944-57	169	122,000	21,200	0
18	Kankakee, Momence	2,340	1915-57	1,819	1,320,000	10,100	306
19	Iroquois, Iroquois	682	1944-57	510	369,000	6,460	8.2
20	Iroquois, Chebanse	2,120	1923-57	1,551	1,120,000	27,000	9
21	Kankakee, Wilmington	5,250	1935-57	3,882	2,810,000	75,900	204
22	Des Plaines, Riverside	635	1944-57	364	264,000	6,510	0.4
23	Chicago Sanitary Canal, Lockport	–	1900-57	6,051	4,380,000	24,585	91
24	Illinois, Marseilles	7,640	1919-57	11,200	8,110,000	93,900	1,460
25	Fox, Algonquin	1,364	1915-57	754	546,000	5,850	12
26	Fox, Dayton	2,570	1915-57	1,478	1,070,000	47,100	–
27	Vermilion, Lowell	1,230	1931-57	750	543,000	27,700	5.9
28	Illinois, Kingston Mines	15,200	1939-57	13,750	9,960,000	83,100	2,300
29	Spoon, Saville	1,600	1914-57	975	706,000	37,300	3.8
30	Sangamon, Monticello	550	1908-12	394	285,000	19,000	0.2
31	Sangamon, Oakford	5,120	1915-18 1921-22 1928-33 1939-57	3,031	2,190,000	123,000	68
32	Illinois, Meredosia	25,300	1938-57	20,040	14,500,000	123,000	3,060
33	Mississippi, Alton	171,500	1928-57	92,700	67,110,000	437,000	–
34	Kaskaskia, Shelbyville	1,030	1908-12 1940-57	847	613,000	25,900	0
35	Kaskaskia, New Athens	5,220	1909-12 1914-21 1935-57	3,830	2,770,000	83,000	40
36	Big Muddy, Murphysboro	2,170	1930-57	1,805	1,310,000	28,000	0


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
INDIANA
KEY
0 20,000 cfs
0 100,000 cfs
Hammond
Gary
South Bend
Valparaiso
Muncie
Fort Wayne
Evansville
LAKE
PORTER
LA PORTE
ST JOSEPH
ELKHART
LAGRANGE
STEUBEN
NOBLE
DEKALB
MARSHALL
KOSCIUSKO
WHITLEY
ALLEN
JASPER
PULASKI
FULTON
WABASH
HUNTINGTON
WELLS
ADAMS
WHITE
CARROLL
BENTON
WARREN
Fayette
HOWARD
GRANT
JAY
CLINTON
TIPTON
MADISON
DELAWARE
RANDOLPH
MONTGOMERY
BOONE
HAMILTON
HENRY
WAYNE
HENDRICKS
MARION
HANCOCK
INDIANAPOLIS
PUTNAM
SHELBY
RUSH
FAYETTE
UNION
MORGAN
JOHNSON
FRANKLIN
DECATUR
MONROE
BROWN
DEARBORN
SULLIVAN
RIPLEY
JENNINGS
JACKSON
OHIO
SWITZERLAND
LAWRENCE
JEFFERSON
KNOX
DAVIESS
SCOTT
WASHINGTON
ORANGE
CLARK
PIKE
DUBOIS
FLOYD
GIBSON
CRAWFORD
HARRISON
POSEY
WARRICK
PERRY
SPENCER
OHIO
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

INDIANA

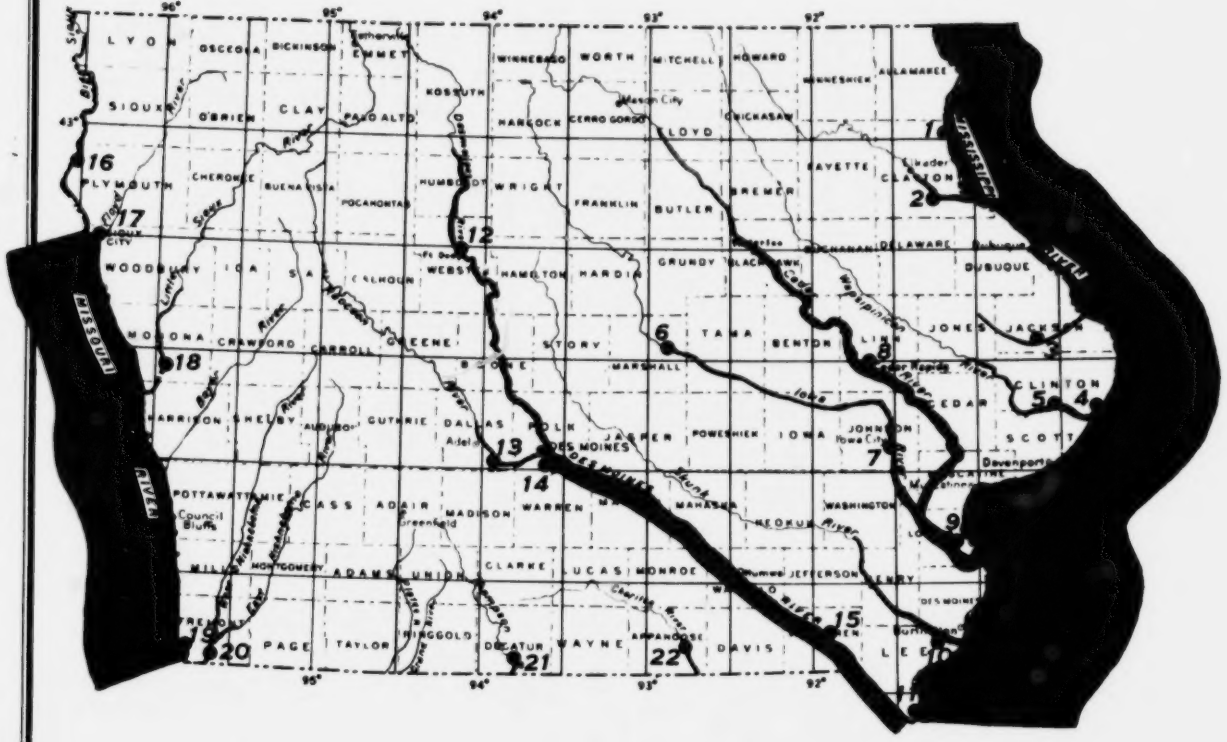
Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Whitewater, Brookville	1,239	1915-17 1923-57	1,262	914,000	69,200	49
2	Ohio, Louisville (Ky.)	91,170	1928-57	113,700	82,300,000	1,110,000	4,090
3	Blue, White Cloud	461	1930-57	609	441,000	26,000	9.2
4	Ohio, Evansville	107,000	1940-57	133,500	96,700,000	1,410,000	-
5	Wabash, Wabash	1,733	1923-57	1,478	1,070,000	49,600	17
6	Mississinewa, Peoria	809	1952-57	617	447,000	19,300	26
7	Wabash, Logansport	3,751	1923-57	3,254	2,360,000	89,800	135
8	Tippecanoe, Delphi	1,857	1939-57	1,566	1,130,000	18,800	-
9	Wabash, Lafayette	7,247	1923-57	6,288	4,550,000	131,000	265
10	Vermilion, Danville (Ill.)	1,280	1930-57	930	673,000	48,700	2
11	Wabash, Montezuma	11,100	1927-57	9,289	6,720,000	184,000	510
12	Wabash, Terre Haute	12,200	1927-57	10,200	7,380,000	189,000	690
13	Wabash, Vincennes	13,700	1929-57	11,260	8,150,000	189,000	770
14	White, Noblesville	814	1915-26 1928-57	812	588,000	27,200	36
15	White, Indianapolis	1,627	1904-5 1930-57	1,361	985,000	37,200	6.8
16	White, Spencer	2,980	1925-57	3,023	2,190,000	59,400	133
17	Eel, Bowling Green	844	1931-57	841	609,000	34,000	11
18	East Fork White, Columbus	1,692	1947-57	1,915	1,390,000	48,700	87
19	East Fork White, Shoals	4,954	1903-5 1909-16 1923-57	5,400	3,910,000	160,000	
20	White, Petersburg	11,139	1927-57	11,440	8,280,000	183,000	553
21	Wabash, Mount Carmel (Ill.)	28,600	1927-57	26,390	19,100,000	305,000	1,620
22	Elkhart, Goshen	580	1924-27 1931-56	503	364,000	5,440	11
23	St. Joseph, Elkhart (Trib. Lake Michigan)	3,339	1947-56	3,350	2,420,000	18,400	335
24	St. Joseph, Newville (Trib. Lake Erie)	614	1946-56	569	412,000	9,710	16
25	Cedar, Cedarville	279	1946-56	270	195,000	4,870	12
26	St. Marys, Fort Wayne	753	1931-33 1934-56	573	415,000	13,400	3.4
27	Maumee, Antwerp (Ohio)	2,049	1921-35 1939-56	1,689	1,220,000	26,200	24
28	Kankakee, Davis	508	1925-28 1931-57	480	348,000	1,700	154
29	Yellow, Knox	425	1943-57	388	281,000	5,660	59
30	Kankakee, Shelby	1,753	1923-57	1,526	1,100,000	7,200	260

49881 O - 60 - 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

IOWA


96°
95°
94°
93°
92°
43°
LYON
OSCEOLA
DICKINSON
EMMET
KOSSUTH
WINNEBAGO
WORTH
MITCHELL
HOWARD
WINNESHIEK
ALLAMAKEE
SIOUX
O'BRIEN
CLAY
PAGO ALTO
HANCOCK
CERRO GORDO
FLOYD
CHICKASAW
PLYMOUTH
CHEROKEE
BUENA VISTA
POCAHONTAS
HUMBOLDT
WRIGHT
FRANKLIN
BUTLER
BREMER
FAYETTE
CLAYTON
DELAWARE
DUBUQUE
WOODBURY
IDA
SAC
CALHOUN
WEBSTER
HAMILTON
HARDIN
GRUNDY
BLACK HAWK
MONONA
CRAWFORD
CARROLL
GREENE
STORY
TAMA
BENTON
LINN
JONES
JACKSON
HARRISON
SHELBY
AUDUBON
GUTHRIE
DALLAS
POLK
JASPER
POWESHIEK
IOWA
JOHNSON
CEDAR
CLINTON
SCOTT
POTTAWATTAMIE
CASS
ADAIR
MADISON
WARREN
MARION
MAHASKA
WASHINGTON
KEOKUK
MILLS
MONTGOMERY
ADAMS
UNION
CLARKE
LUCAS
MONROE
JEFFERSON
HENRY
PAGE
TAYLOR
RINGGOLD
DECATUR
WAYNE
APPANOOSE
DAVIS
LEE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
Missouri River
Big Sioux River
Little Sioux River
Floyd River
Des Moines River
Iowa River
Cedar River
Wapsipinicon River
Maquoketa River
Turkey River
Upper Iowa River
Yellow River
Boyer River
Nishnabotna River
Nodaway River
Platte River
Grand River
Thompson River
Weldon River
Chariton River
Skunk River
Mississippi River
Sioux City
Council Bluffs
Des Moines
Davenport
Mason City
Fort Dodge
Ottumwa
Iowa City
Cedar Rapids
Waterloo
Clinton
Dubuque
Burlington
Keokuk
Creston
Shenandoah
Greenfield
Atlantic
Audubon
Ida Grove
Storm Lake
Spencer
Estherville
Algona
Fort Dodge
Webster City
Marshalltown
Grinnell
Newton
Pella
Oskaloosa
Knoxville
Centerville
Chariton
Corydon
Bloomfield
Fairfield
Mount Pleasant
Washington
Muscatine
Davenport
Clinton
Dubuque
Decorah
Waukon
Postville
Manchester
Independence
Waterloo
Cedar Falls
Charles City
Mason City
Clear Lake
Forest City
Sheldon
Orange City
Le Mars
Sioux City
Denison
Carroll
Glidden
Audubon
Harlan
Shenandoah
Clarinda
Creston
Osceola
Chariton
Albia
Centerville
Fairfield
Mount Pleasant
Burlington
Keokuk
Fort Madison

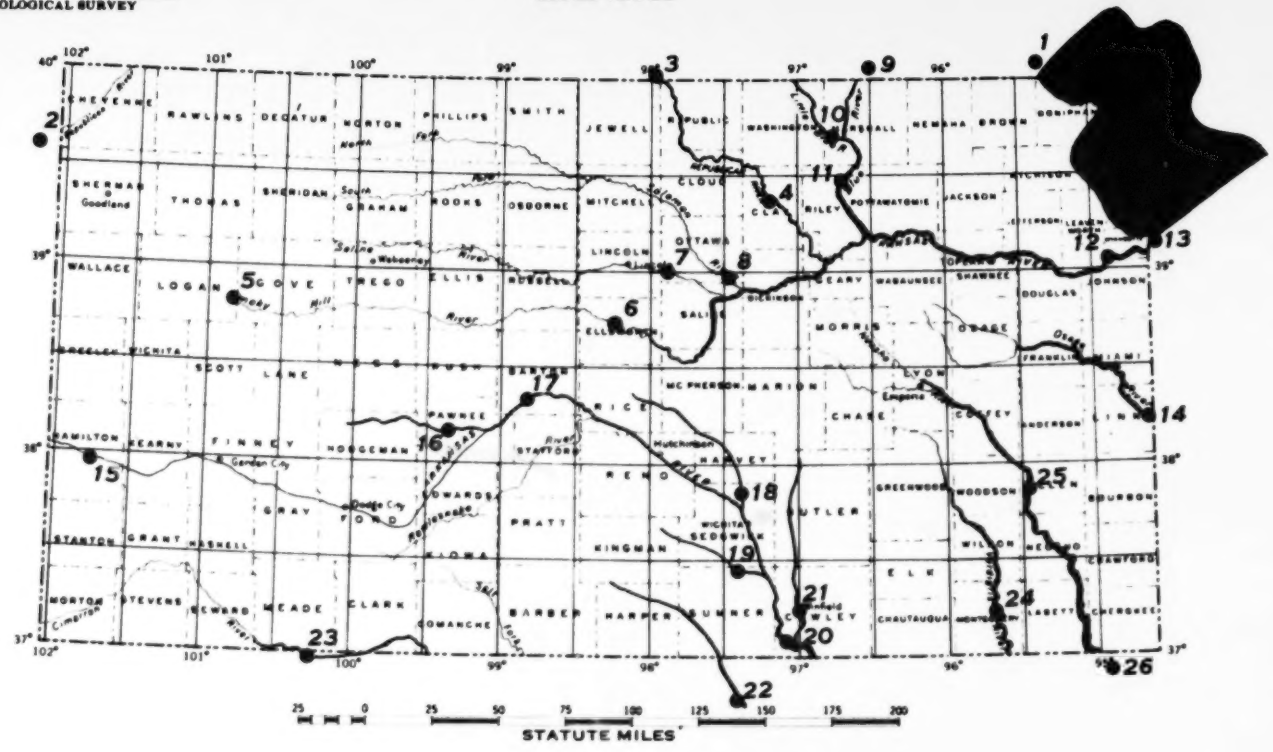
IOWA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Mississippi, McGregor	67,500	1936-57	33,120	24,000,000	197,500	6,200
2	Turkey, Garber	1,545	1913-16 1919-27 1929-30 1933-57	854	618,000	29,000	49
3	Maquoketa, Maquoketa	1,553	1913-57	939	680,000	48,000	105
4	Mississippi, Clinton	85,600	1939-57	46,280	33,500,000	225,400	12,000
5	Wapsipinicon, DeWitt	2,330	1934-57	1,282	928,000	26,000	70
6	Iowa, Marshalltown	1,564	1915-27 1933-57	690	500,000	42,000	2
7	Iowa, Iowa City	3,271	1903-57	1,496	1,080,000	36,200	0
8	Cedar, Cedar Rapids	6,510	1903-57	3,044	2,200,000	72,000	212
9	Iowa, Wapello	12,499	1915-57	5,970	4,320,000	94,000	300
10	Skunk, Augusta	4,303	1915-57	2,092	1,510,000	44,800	7
11	Mississippi, Keokuk	119,000	1878-1957	61,180	44,300,000	314,000	5,000
12	Des Moines, Fort Dodge	4,190	1914-27 1950-57	1,416	1,020,000	35,400	14
13	Raccoon, Van Meter	3,441	1915-32 1933-57	1,182	856,000	41,200	10
14	Des Moines, Des Moines	9,879	1940-57	3,890	2,820,000	77,000	55
15	Des Moines, Keosauqua	14,038	1903-5 1911-57	5,108	3,700,000	146,000	40
16	Big Sioux, Akron	9,030	1928-57	848	613,900	33,000	7
17	Missouri, Sioux City	314,600	1897-1957	33,250	24,070,000	441,000	2,500
18	Little Sioux and Monona-Harrison ditch, Turin	4,426	1939-57	1,251	905,700	-	3
19	Missouri, Nebraska City (Nebr.)	414,400	1929-57	34,340	24,860,000	414,000	1,600
20	Nishnabotna, Hamburg	2,806	1922-23 1928-57	893	646,500	55,500	4.5
21	Thompson, Davis City	701	1918-24 1941-57	329	238,200	21,300	0.1
22	Chariton, Centerville	708	1938-57	324	234,600	21,700	0.1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

KANSAS



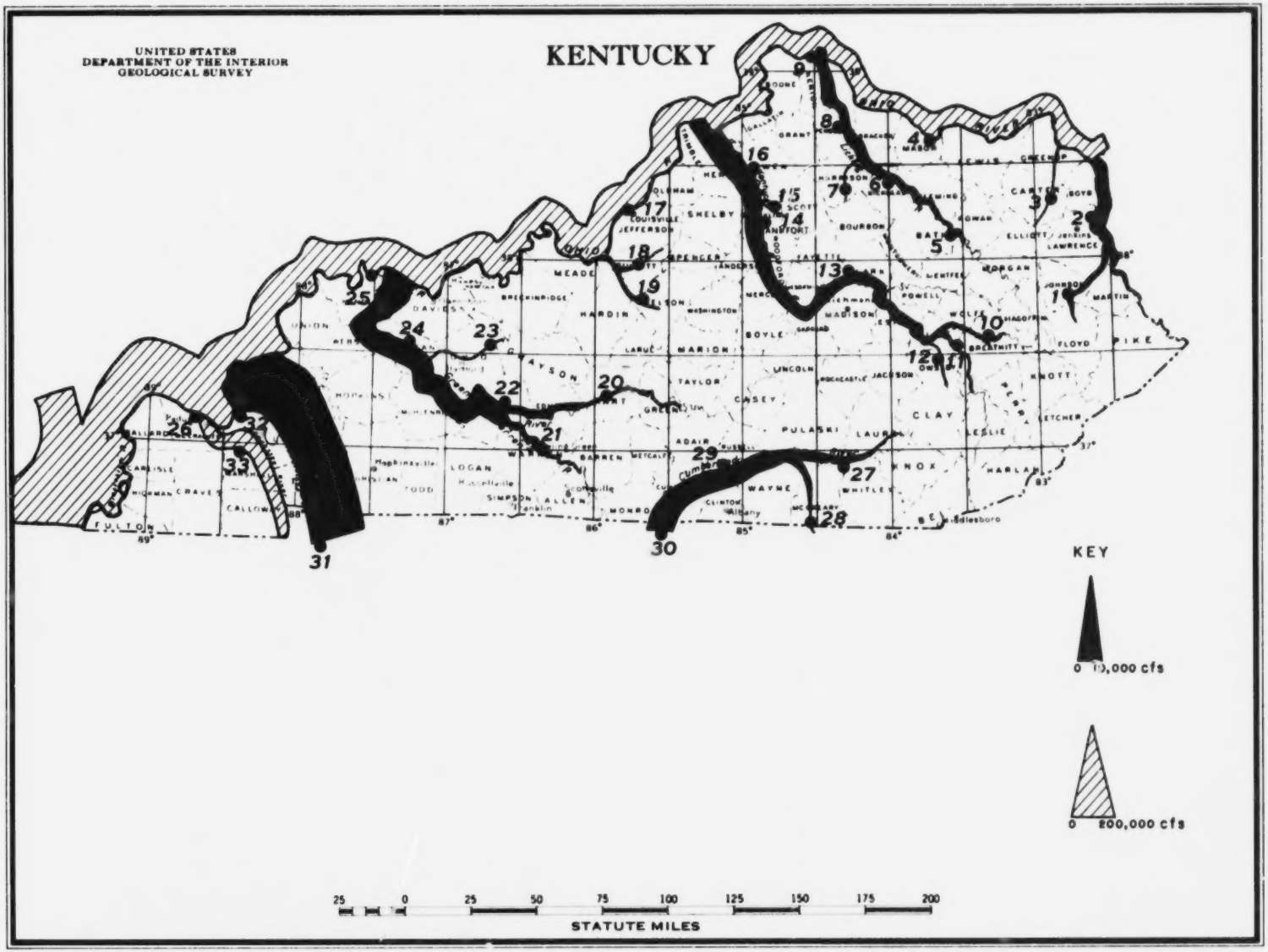
KEY

0 20,000 cfs

KANSAS

Flow of Selected Streams

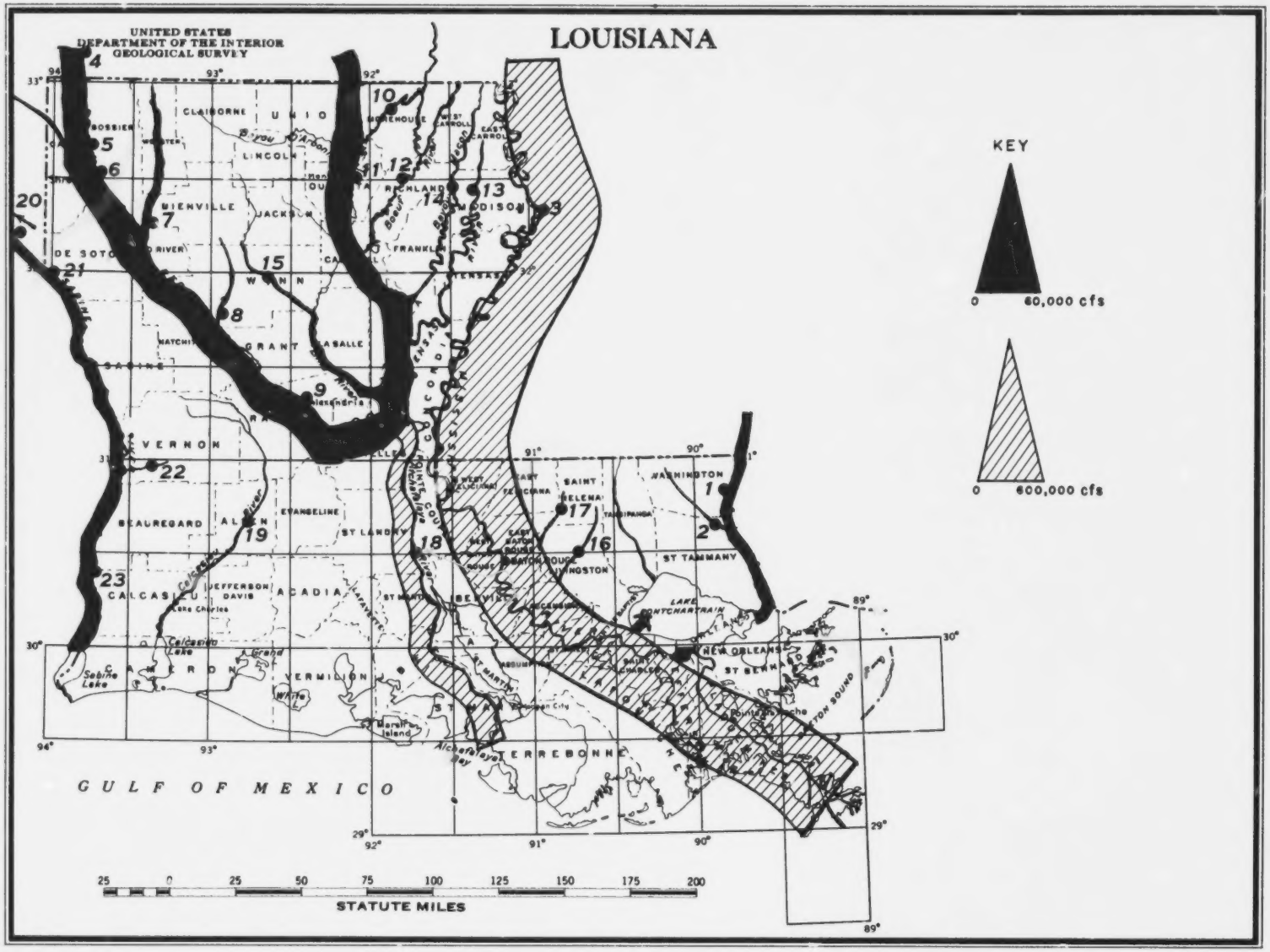
No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Missouri, Rulo (Neb.)	418,905	1949-57	40,050	28,990,000	358,000	4,420
2	South Fork Republican, Hale (Colo.)	1,760	1951-57	26.5	19,190	3,790	0
3	Republican, Hardy (Nebr.)	22,400	1913-14 1932-57	757	548,000	225,000	0
4	Republican, Clay Center	24,570	1917-57	1,086	786,200	195,000	0
5	Smoky Hill, Elkader	3,560	1939-57	55.5	40,180	21,100	0
6	Smoky Hill, Ellsworth	7,580	1895-1905 1918-24 1928-57	242	175,200	61,000	0
7	Saline, Tescott	2,820	1919-57	227	164,300	61,400	0
8	Solomon, Niles	6,770	1897-03 1917-57	596	431,500	178,000	1
9	Big Blue, Barneston (Nebr.)	4,420	1932-57	737	533,600	57,700	1
10	Little Blue, Waterville	3,440	1922-24 1928-57	628	454,700	50,400	26
11	Big Blue, Randolph	9,100	1918-57	1,611	1,166,000	98,000	31
12	Kansas, Bonner Springs	59,890	1917-57	6,385	4,623,000	510,000	160
13	Missouri, Kansas City (Mo.)	489,200	1897-57	55,980	40,530,000	573,000	1,500
14	Marais Des Cygnes, Trading Post	2,880	1928-57	1,660	1,202,000	148,000	0
15	Arkansas, Syracuse	25,763	1902-06 1921-57	394	285,200	62,000	0
16	Pawnee, Larned	2,148	1924-57	82.8	59,940	14,000	0
17	Arkansas, Great Bend	34,356	1940-57	478	346,100	20,200	0
18	Little Arkansas, Valley Center	1,327	1922-57	233	168,700	32,000	1
19	Ninnescah, Peck	2,129	1937-57	547	396,000	38,200	0.2
20	Arkansas, Arkansas City	43,713	1902-06 1921-57	1,671	1,210,000	103,000	1
21	Walnut, Winfield	1,840	1921-57	705	510,400	105,000	0
22	Chikaskia, Blackwell (Okl.)	1,859	1935-57	469	339,500	85,000	0
23	Cimarron, Mocane (Okl.)	8,670	1942-57	106	76,740	53,400	0
24	Verdigris, Independence	2,892	1895-1904 1921-57	1,566	1,134,000	117,000	0
25	Neosho, Iola	3,818	1895-1903 1917-57	1,550	1,122,000	436,000	0
26	Neosho, Commerce (Okl.)	5,876	1939-57	3,484	2,522,000	267,000	0


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
KENTUCKY
KEY
0 10,000 cfs
0 200,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

KENTUCKY

Flow of Selected Streams

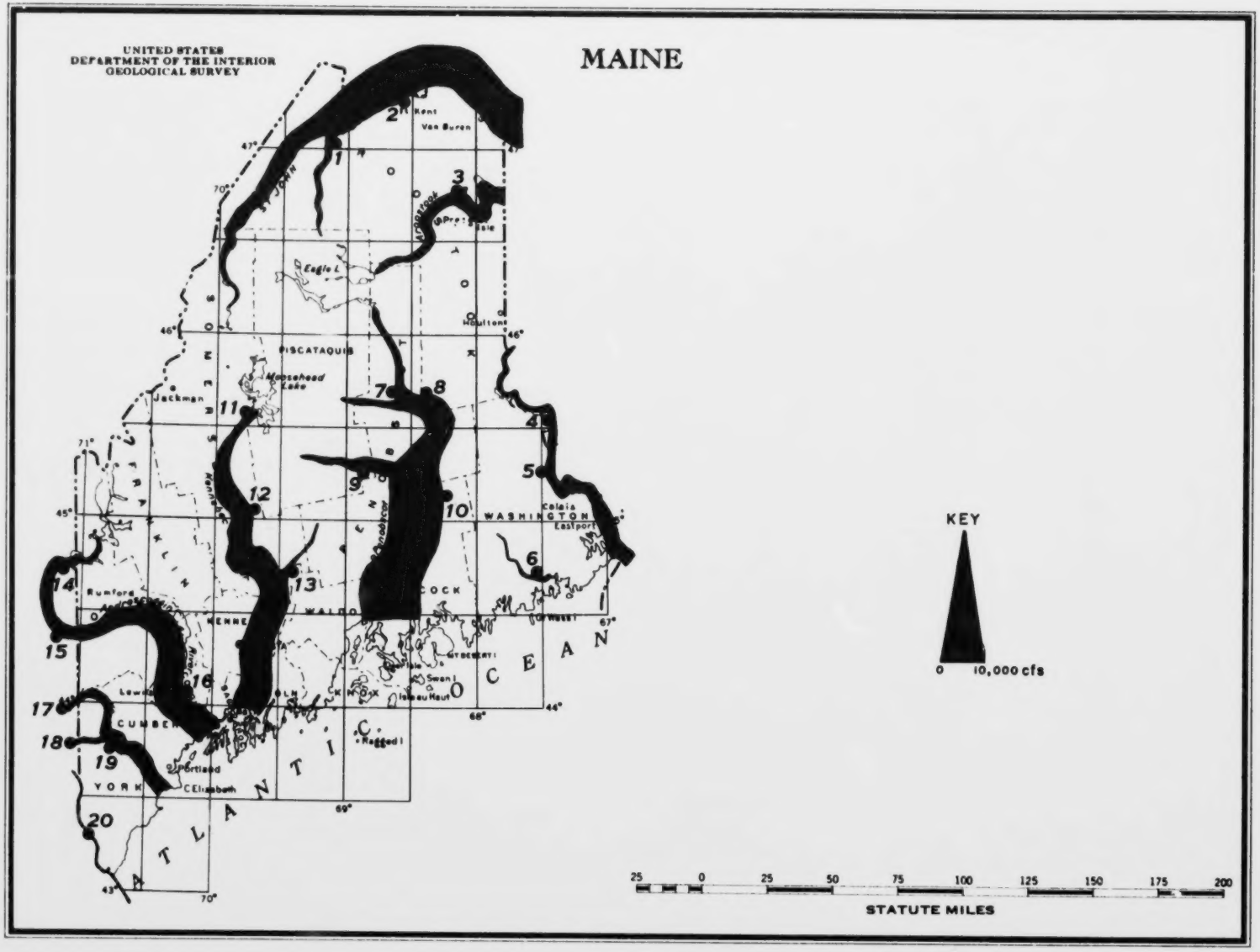
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Levisa Fork, Paintsville	2,143	1915-16 1926-57	2,342	1,700,000	69,700	8.4
2	Big Sandy, Louisa	3,870	1938-57	4,140	3,000,000	89,400	–
3	Little Sandy, Grayson	398	1938-57	477	345,000	24,500	1.5
4	Ohio, Mayville	70,130	1940-57	91,720	66,400,000	635,000	–
5	Licking, Farmers	826	1938-57	1,054	763,000	22,200	0.7
6	Licking, Blue Lick Springs	1,740	1938-57	2,289	1,660,000	35,900	2.9
7	South Fork Licking, Cynthiana	615	1938-57	743	538,000	35,300	0.3
8	Licking, Catawba	3,250	1915-17 1928-57	4,122	2,980,000	86,300	2.5
9	Ohio, Cincinnati (Ohio)	76,580	1939-57	96,560	69,900,000	894,000	–
10	North Fork Kentucky, Jackson	1,103	1928-31 1938-57	1,257	910,000	53,500	0
11	Middle Fork Kentucky, Tallega	537	1930-31 1939-57	668	484,000	52,700	0.1
12	South Fork Kentucky, Booneville	720	1925-31 1939-57	995	720,000	66,100	0
13	Kentucky, Winchester	3,956	1907-57	5,176	3,750,000	92,400	10
14	Kentucky, Frankfort	5,412	1925-57	6,940	5,020,000	115,000	–
15	Elkhorn Creek, Frankfort	474	1915-18 1940-57	571	413,000	22,400	0
16	Kentucky, Lockport	6,181	1925-57	8,136	5,890,000	123,000	–
17	Ohio, Louisville	91,170	1928-57	113,700	82,300,000	1,110,000	4,090
18	Salt, Shepherdsville	1,230	1938-57	1,517	1,100,000	50,000	0
19	Rolling Fork, Boston	1,290	1938-57	1,669	1,210,000	41,300	0.4
20	Green, Munfordville	1,790	1915-22 1927-31 1937-57	2,586	1,870,000	72,200	39
21	Barren, Bowling Green	1,848	1938-57	2,453	1,780,000	77,400	44
22	Green, Woodbury	5,410	1937-57	7,697	5,570,000	205,000	200
23	Rough, Dundee	752	1939-57	963	697,000	20,000	8.1
24	Green, Livermore	7,580	1930-57	10,760	7,790,000	208,000	280
25	Ohio, Evansville (Ind.)	107,000	1940-57	133,500	96,700,000	1,410,000	–
26	Ohio, Metropolis (Ill.)	203,000	1934-57	262,800	190,000,000	1,780,000	20,600
27	Cumberland, Cumberland Falls	1,977	1907-11 1915-31 1932-57	3,131	2,270,000	59,600	4
28	South Fork Cumberland, Stearns	954	1942-57	1,744	1,260,000	69,600	11
29	Cumberland, Rowena	5,790	1940-57	8,797	6,370,000	162,000	0
30	Cumberland, Celina (Tenn.)	7,320	1922-57	11,240	8,140,000	145,000	69
31	Cumberland, Dover (Tenn.)	16,530	1937-57	24,420	17,700,000	188,000	414
32	Cumberland, Smithland	18,080	1940-57	27,350	19,800,000	201,000	453
33	Tennessee, Paducah	40,200	1889-1957	63,730	46,100,000	500,000	–


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
LOUISIANA
KEY
0 60,000 cfs
0 600,000 cfs
GULF OF MEXICO
STATUTE MILES
25 0 25 50 75 100 125 150 175 200

LOUISIANA

Flow of Selected Streams

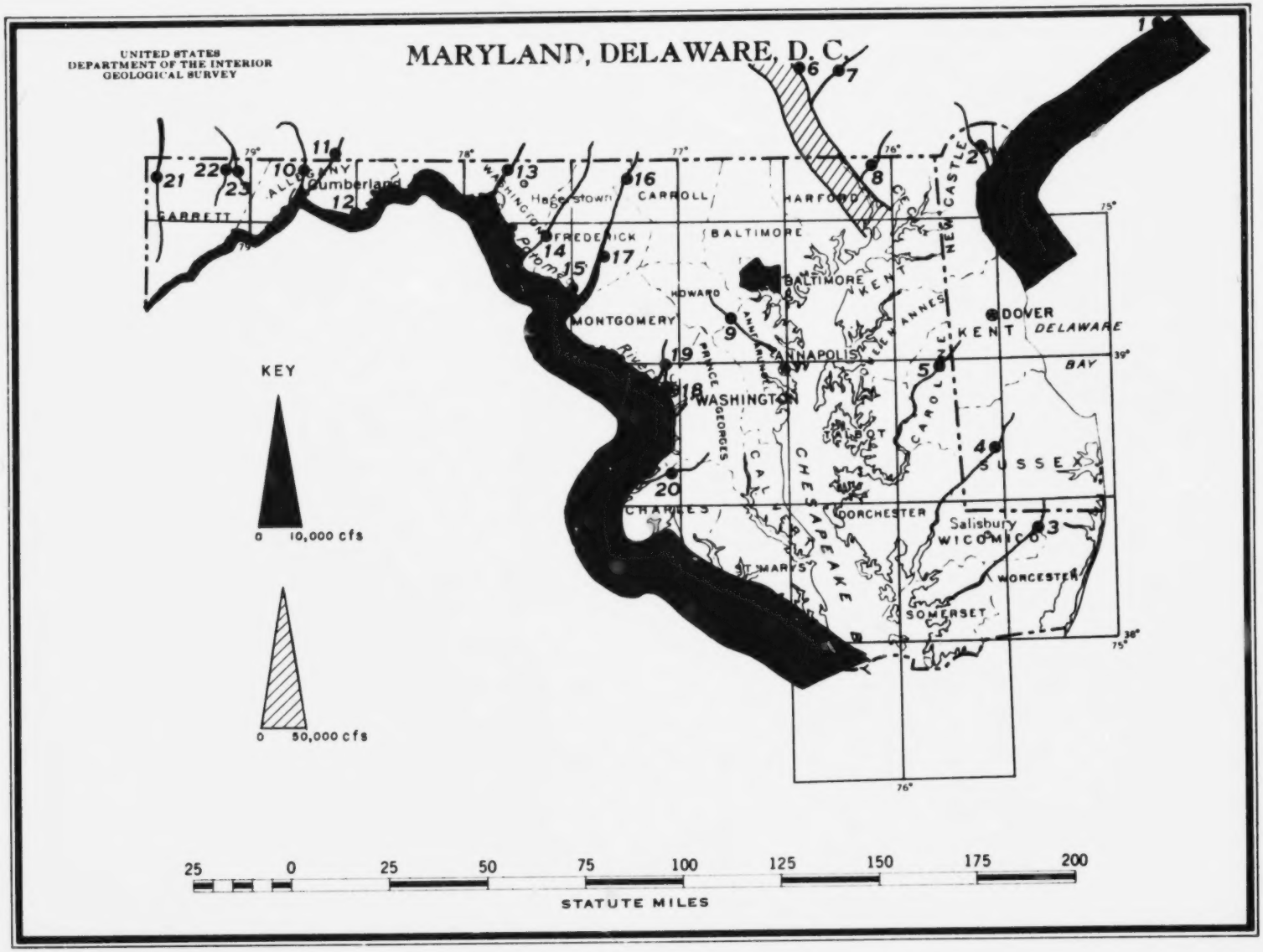
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Pearl, Bogalusa	6,630	1938-57	8,718	6,310,000	60,000	1,100
2	Bogue Chitto, Bush	1,210	1937-57	1,866	1,350,000	51,200	424
3	Mississippi, Vicksburg (Miss.)	1,144,500	1928-57	559,300	405,000,000	2,080,000	99,400
4	Red, Fulton (Ark.)	52,380	1927-57	18,730	13,600,000	338,000	390
5	Twelvemile Bayou, Dixie	3,137	1942-57	2,649	1,920,000	34,900	3.2
6	Red, Shreveport	60,613	1928-57	25,460	18,400,000	303,000	690
7	Loggy Bayou, Ninock	2,628	1948-57	2,157	1,560,000	20,000	0
8	Saline, Clarence	1,382	1949-57	1,356	982,000	14,200	2.7
9	Red, Alexandria	67,500	1928-57	32,430	23,500,000	233,000	873
10	Bayou Bartholomew, Beekman	1,645	1928-31 1938-57	1,686	1,220,000	10,400	38
11	Ouachita, Monroe	15,298	1932-57	17,820	12,900,000	101,000	-
12	Beouf, Girard	1,226	1938-57	596	432,000	2,970	30
13	Tensas, Tendal	309	1936-57	323	234,000	4,610	2.8
14	Bayou Macon, Delhi	782	1935-57	945	684,000	5,460	10
15	Dugdemona, Winnfield	654	1939-57	774	660,000	27,100	0
16	Tickfaw, Holden	242	1940-57	364	264,000	9,680	75
17	Amite, Darlington	580	1950-57	784	568,000	55,700	-
18	Atchafalaya, Krotz Springs	-	1934-57	166,800	121,000,000	624,000	17,400
19	Calcasieu, Oberlin	753	1922-24 1938-57	1,238	896,000	72,300	30
20	Sabine, Emory (Tex.)	965	1952-57	507	367,000	74,000	0
21	Sabine, Logansport	4,858	1903-19 1922-57	3,216	2,330,000	92,000	16
22	Bayou Anacoco, Rosepine	366	1951-57	460	333,000	64,300	5.5
23	Sabine, Ruliff	9,440	1924-57	8,804	6,370,000	121,000	270


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MAINE
KEY
0 10,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES
ATLANTIC OCEAN
PISCATAQUIS
WASHINGTON
YORK
Portland
Eastport
Calais
Jackman
Houlton
Presque Isle
Rumford
Lewiston
Augusta
Rockland
Bangor
Millinocket
Eagle L.
Moosehead Lake
Van Buren
St. John
Machias
Swans I.
Isleau Haut
Ragged I.
Grindstone
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

MAINE

Flow of Selected Streams

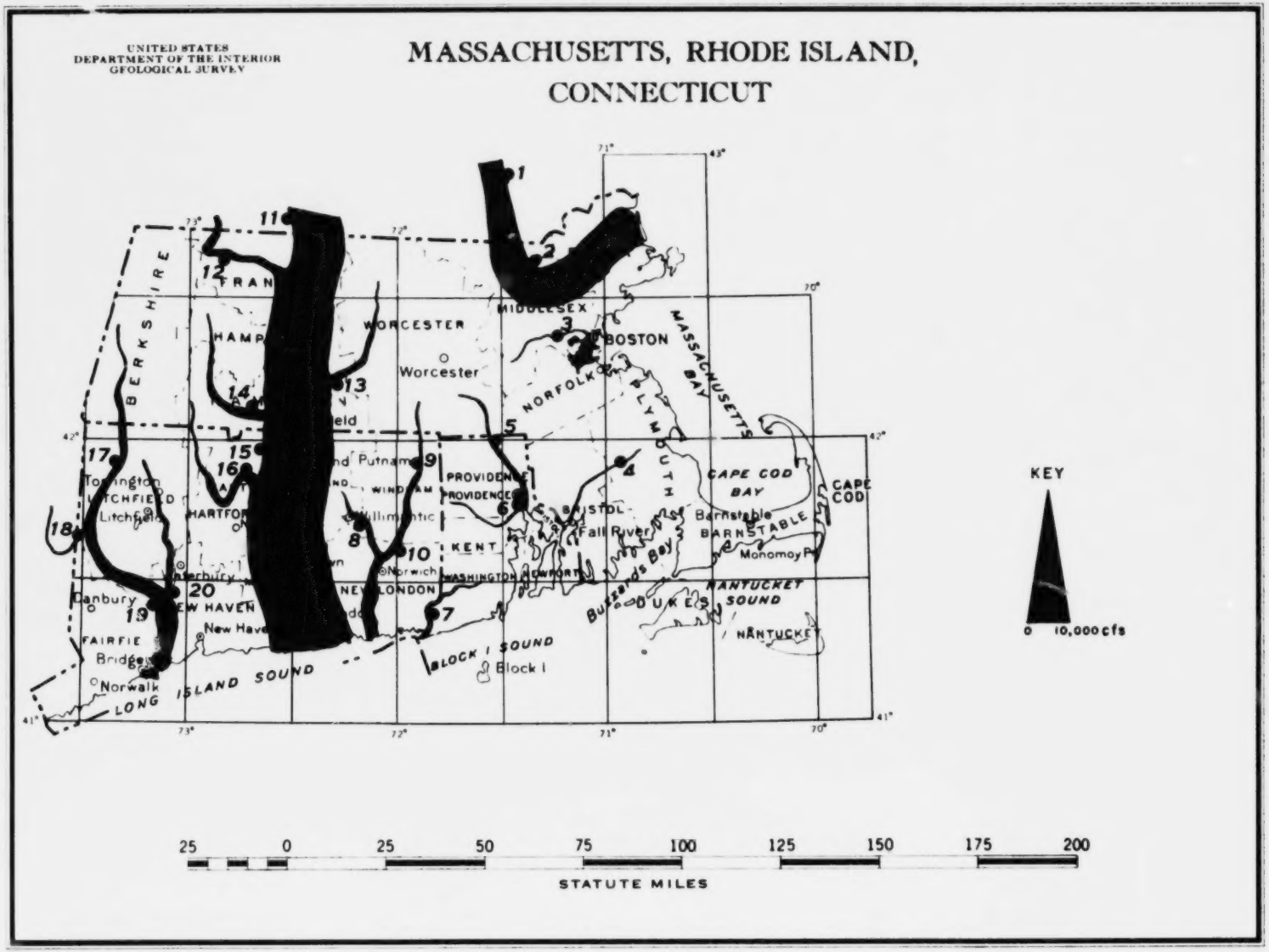
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Allagash, Allagash	1,250	1931-57	1,881	1,360,000	23,400	91
2	St. John, Ft. Kent	5,690	1926-57	9,438	6,830,000	121,000	510
3	Aroostook, Washburn	1,652	1930-57	2,524	1,830,000	37,800	75
4	St. Croix, Vanceboro	417	1928-57	685	496,000	4,470	1.9
5	St. Croix, Baileyville	1,320	1919-57	2,189	1,580,000	23,300	100
6	Machias, Whitneyville	457	1905-21 1929-57	936	678,000	11,800	3.5
7	East Branch Penobscot, Grindstone	1,070	1902-57	1,864	1,350,000	37,000	77
8	Penobscot, Mattawamkeag	3,310	1940-57	5,446	3,940,000	40,200	1,430
9	Piscatiquis, Medford	1,161	1924-57	2,249	1,630,000	50,200	99
10	Penobscot, Passadumkeag	7,000	1938-57	12,020	8,700,000	126,000	2,600
11	Kennebec, Moosehead	1,240	1919-57	1,852	1,340,000	15,600	62
12	Kennebec, Bingham	2,710	1907-09 1930-57	4,229	3,060,000	58,800	110
13	Sebasticook, Pittsfield	579	1928-57	920	666,000	14,400	4.5
14	Androscoggin, Errol (N.H.)	1,045	1905-57	1,873	1,360,000	15,700	-
15	Androscoggin, Gorham (N.H.)	1,363	1913-57	2,428	1,760,000	20,000	795
16	Androscoggin, Auburn	3,257	1928-57	5,927	4,290,000	135,000	309
17	Saco, Conway (N.H.)	386	1903-9 1929-57	923	668,000	43,900	40
18	Ossipee, Effingham Falls (N.H.)	330	1942-57	726	526,000	11,700	11
19	Saco, Cornish	2,691	1916-57	2,691	1,950,000	45,000	90
20	Salmon Falls, South Lebanon	147	1929-57	239	173,000	5,490	4.7


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MARYLAND, DELAWARE, D. C.
KEY
0 10,000 cfs
0 50,000 cfs
GARRETT
ALLEGANY
Cumberland
WASHINGTON
Hagerstown
FREDERICK
CARROLL
HARFORD
BALTIMORE
BALTIMORE
HOWARD
MONTGOMERY
ANNE ARUNDEL
ANNAPOLIS
PRINCE GEORGES
WASHINGTON
CHARLES
CALVERT
ST. MARYS
CHESAPEAKE BAY
CAROLINE
TALBOT
DORCHESTER
Salisbury
WICOMICO
WORCESTER
SOMERSET
SUSSEX
KENT
NEW CASTLE
DOVER
DELAWARE
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

MARYLAND, DELAWARE, DISTRICT OF COLUMBIA

Flow of Selected Streams

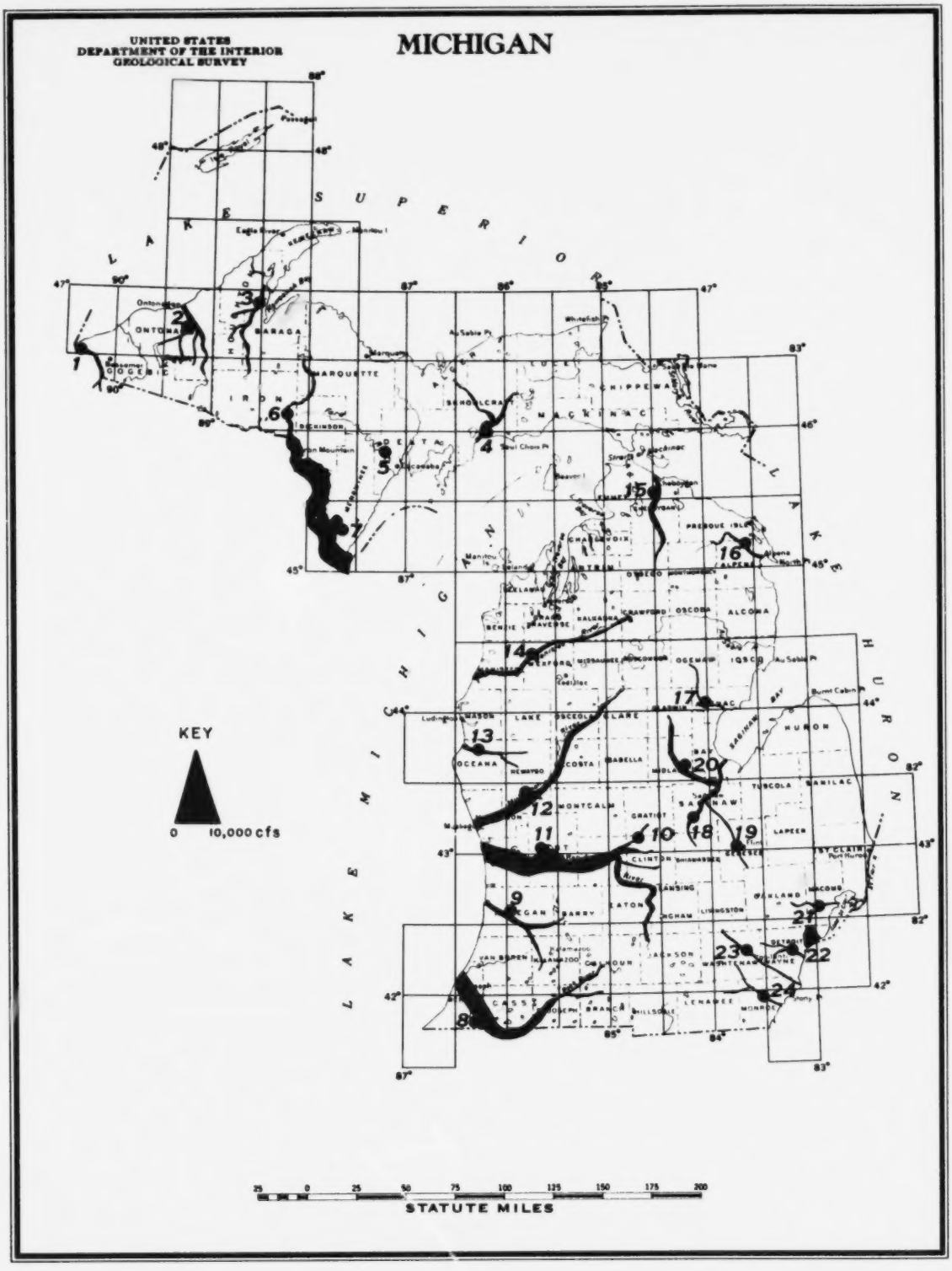
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Delaware, Trenton (N.J.)	6,780	1913-56	11,850	8,580,000	329,000	1,220
2	Brandywine, Wilmington (Del.)	314	1947-56	469	340,500	17,800	62
3	Pocomoke, Willards (Md.)	60.5	1949-56	59.4	43,000	830	3.8
4	Nanticoke, Bridgeville (Del.)	75.4	1943-56	84.2	61,000	830	6.3
5	Choptank, Greensboro (Md.)	113	1948-56	122	88,300	3,640	6.5
6	Susquehanna, Marietta (Pa.)	25,990	1931-56	36,460	26,400,000	787,000	1,380
7	Conestoga, Lancaster (Pa.)	324	1928-31 1933-56	390	282,000	22,800	0
8	Octoraro, Rising Sun (Md.)	193	1932-35 1936-56	252	182,000	35,000	18
9	Little Patuxent, Savage (Md.)	38.0	1932-56	40.9	29,600	5,300	3.2
10	Wills Creek, Cumberland (Md.)	247	1929-56	315	228,000	38,100	9
11	Evitts, Centerville (Pa.)	30.2	1932-56	30.6	22,200	5,240	1.2
12	Potomac, Paw Paw (W.Va.)	3,109	1938-56	3,152	2,280,000	111,000	216
13	Conococheague, Fairview (Md.)	494	1928-56	576	417,000	17,100	22
14	Antietam, Sharpsburg (Md.)	281	1928-56	260	188,000	12,600	50
15	Potomac, Point of Rocks (Md.)	9,651	1896-1956	9,378	6,790,000	480,000	540
16	Monocacy, Bridgeport (Md.)	173	1942-56	201	146,000	15,000	0.1
17	Monocacy, Frederick (Md.)	817	1929-56	917	664,000	51,000	35
18	Potomac, Washington (D.C.)	11,560	1930-56	11,260	8,150,000	484,000	448
19	Rock Creek, Washington (D.C.)	62.2	1929-56	56.3	40,800	7,220	0.5
20	Mattawoman Creek, Pomonkey (Md.)	57.7	1950-56	58.0	42,000	9,300	0
21	Youghiogheny, Friendsville (Md.)	295	1898-1904 1940-57	654	474,000	13,000	10
22	Casselman, Grantsville (Md.)	62.5	1947-57	117	84,700	8,400	1.0
23	Big Piney, Salisbury (Md.)	24.5	1932-57	38.0	27,500	6,850	.08


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MASSACHUSETTS, RHODE ISLAND,
CONNECTICUT
BERKSHIRE
WORCESTER
Worcester
MIDDLESEX
BOSTON
NORFOLK
PLYMOUTH
MASSACHUSETTS BAY
CAPE COD BAY
CAPE COD
PROVIDENCE
BRISTOL
Fall River
Barnstable
BARNSTABLE
Monomoy Pt
KENT
WASHINGTON
NEWPORT
NEW LONDON
Buzzards Bay
DUKES
NANTUCKET SOUND
NANTUCKET
Danbury
FAIRFIELD
Bridgeport
Norwalk
LONG ISLAND SOUND
BLOCK I SOUND
Block I
Litchfield
Willimantic
Norwich
New Haven
KEY
0 10,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

MASSACHUSETTS, RHODE ISLAND, AND CONNECTICUT

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Merrimack, Manchester (N.H.)	3,092	1936-57	5,312	3,846,000	102,500	147
2	Merrimack, Lowell (Mass.)	4,635	1923-57	7,210	5,220,000	173,000	199
3	Charles, Waltham (Mass.)	227	1931-57	373	270,000	2,540	0.2
4	Taunton, State Farm (R.I.)	260	1929-57	469	339,500	4,010	9
5	Blackstone, Woonsocket (R.I.)	415	1929-57	714	516,900	32,900	21
6	Pawtuxet, Cranston (R.I.)	200	1940-57	391	283,100	2,090	22
7	Pawcatuk, Westerly (R.I.)	295	1940-57	546	395,300	3,510	25
8	Shetucket, Willimantic (Conn.)	401	1905 1919-21 1928-57	704	509,700	52,200	19
9	Quinebaug, Putnam (Conn.)	331	1929-57	570	412,700	48,000	11
10	Quinebaug, Jewett City (Conn.)	711	1918-57	1,247	902,800	40,700	18
11	Connecticut, Vernon (Vt.)	6,266	1944-57	10,720	7,761,000	176,000	99
12	Deerfield, Charlemont (Mass.)	362	1913-57	898	650,100	56,300	5
13	Chicopee, Indian Orchard (Mass.)	688	1928-57	1,106	800,700	45,200	16
14	Westfield, Westfield (Mass.)	497	1914-57	953	689,900	70,300	9
15	Connecticut, Thompsonville (Conn.)	9,661	1928-57	16,470	11,920,000	282,000	1,060
16	Farmington, Rainbow (Conn.)	591	1928-57	1,082	783,300	69,200	5.1
17	Housatonic, Falls Village (Conn.)	632	1912-57	1,078	780,400	23,900	0
18	Tenmile, Gaylordsville (Conn.)	204	1929-57	298	215,700	17,400	9
19	Housatonic, Stevenson (Conn.)	1,545	1928-57	2,616	1,894,000	75,800	0
20	Naugatuck, Beacon Falls (Conn.)	261	1918-24 1928-57	474	343,200	106,000	40

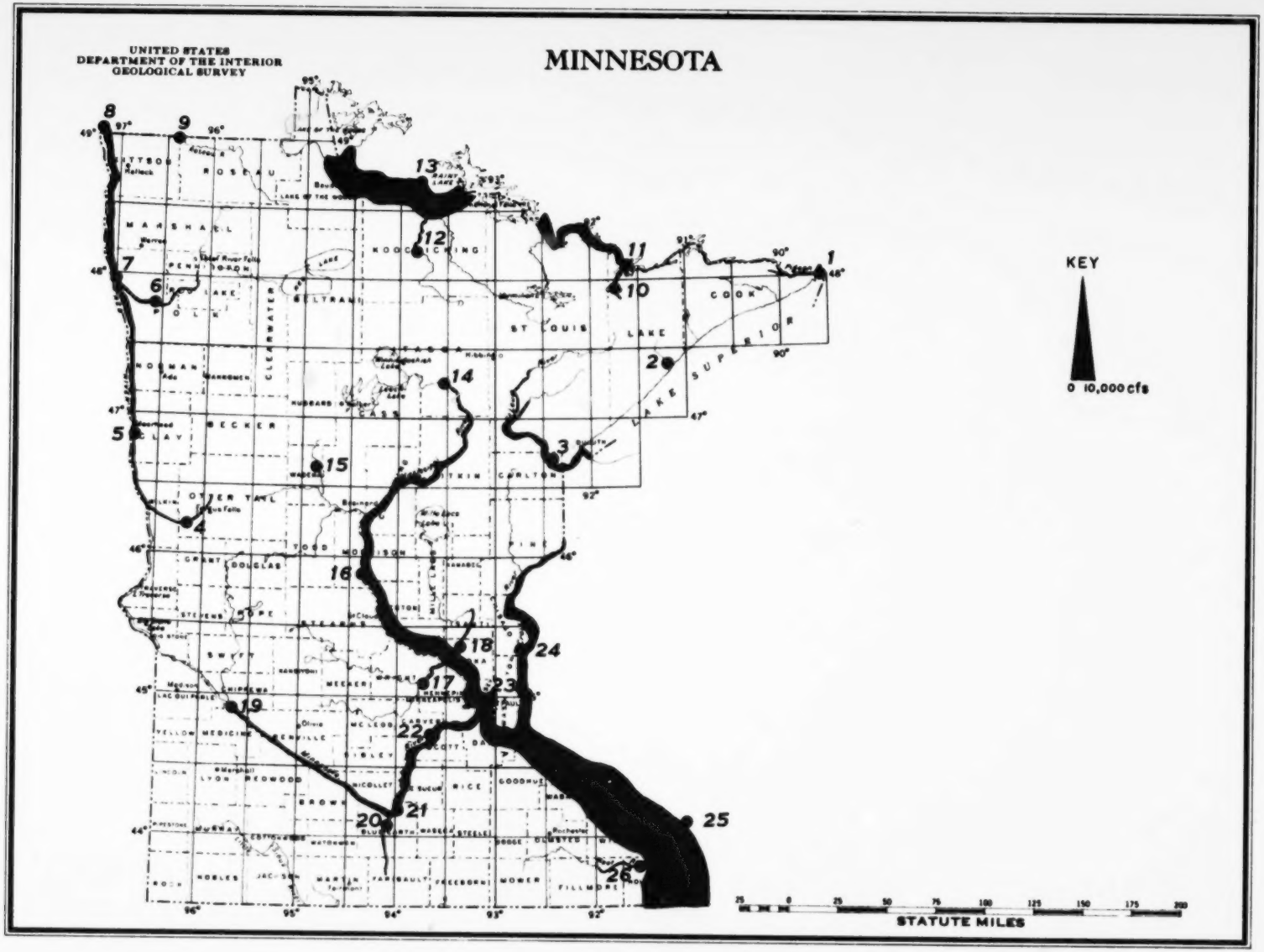

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MICHIGAN
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
KEY
0 10,000 cfs
STATUTE MILES

MICHIGAN

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Montreal, Saxon (Wisc.)	281	1938-56	348	252,000	5,700	2
2	Ontonagon, Rockland	1,290	1942-56	1,476	1,070,000	42,000	260
3	Sturgeon, Arnheim	703	1942-56	835	604,000	15,500	200
4	Manistique, Manistique	1,100	1938-56	1,335	967,000	13,600	288
5	Escanaba, Cornell	870	1909-12 1950-56	952	689,000	10,000	90
6	Michigamme, Crystal Falls	670	1944-56	708	513,000	6,340	71
7	Menominee, McAllister (Wisc.)	4,020	1945-56	3,392	2,460,000	25,700	538
8	St. Joseph, Niles	3,620	1930-56	3,177	2,300,000	20,200	420
9	Kalamazoo, Fennville	1,600	1932-56	1,360	985,000	17,500	73
10	Maple, Maple Rapids	434	1944-56	266	193,000	6,500	8
11	Grand, Grand Rapids	4,900	1930-56	3,423	2,480,000	54,000	381
12	Muskegon, Newaygo	2,350	1930-56	1,834	1,330,000	14,950	330
13	Pere Marquette, Scottville	709	1939-56	622	450,000	2,550	310
14	Manistee, Sherman	900	1903-15 1934-56	1,080	782,000	3,570	540
15	Cheboygan, Cheboygan	865	1942-56	773	560,000	1,590	100
16	Thunder Bay, Bolton	588	1945-56	437	316,000	3,410	92
17	Rifle, Sterling	320	1937-39 1940-56	314	227,000	5,340	87
18	Shiawassee, Fergus	637	1940-56	464	336,000	7,500	29
19	Flint, Flint	927	1932-56	569	412,000	14,900	9
20	Tittabawassee, Midland	2,400	1936-56	1,558	1,130,000	34,000	111
21	Clinton, Mount Clemens	733	1934-56	497	360,000	21,200	-
22	Lower River Rouge, Inkster	90	1947-56	57	41,300	3,120	0.2
23	Huron, Ann Arbor	711	1906-40 1948-56	433	313,000	5,840	4
24	Raisin, Monroe	1,034	1937-56	731	529,000	12,900	2

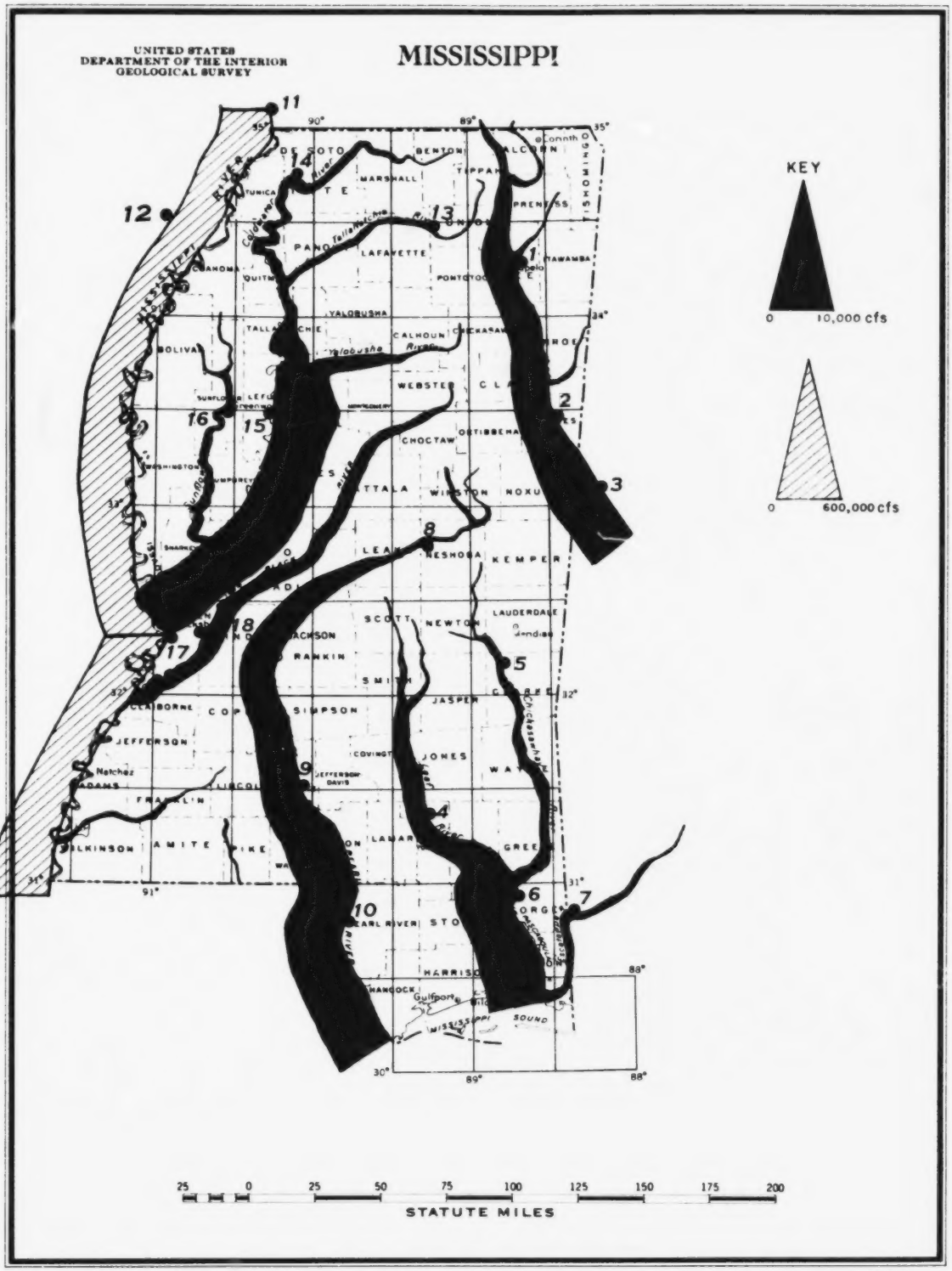
49893 O - 60 - 4


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MINNESOTA
KEY
0 10,000 cfs
STATUTE MILES

MINNESOTA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Pigeon, International Bridge	600	1923-56	507	367,000	11,000	27
2	Baptism, Beaver Bay	140	1930-47 1949-56	167	121,000	9,350	0.4
3	St. Louis, Scanlon	3,430	1910-13 1950-56	2,538	1,830,000	25,100	171
4	Otter Tail, Fergus Falls	1,830	1931-32 1933-57	261	189,000	1,710	1.0
5	Red, Fargo (N. Dak.)	6,800	1901-57	492	356,200	16,300	0
6	Red Lake, Crookston	5,280	1901-57	1,013	733,400	27,400	2.0
7	Red, Grand Forks (N. Dak.)	30,100	1882-1957	2,316	1,676,000	80,000	2.4
8	Red, Emerson (Manitoba)	40,200	1912-57	2,755	1,995,000	95,500	0.9
9	Roseau, Caribou	1,570	1921-30 1932-33 1936-37 1940-43	309	223,700	4,080	0
10	Kawishiwi, Winton	1,200	1913-19 1923-57	967	700,000	16,000	0
11	Basswood, Winton	1,740	1931-57	1,394	1,010,000	15,600	73
12	Big Fork, Big Falls	1,460	1928-57	657	475,000	14,800	7
13	Rainy, Manitou Rapids	19,400	1934-57	13,080	9,450,000	71,600	2,200
14	Mississippi, Grand Rapids	3,370	1883-1957	1,120	810,000	-	0
15	Crow Wing, Nimrod	1,010	1939-57	471	342,000	2,330	45
16	Mississippi, Royalton	11,600	1924-57	3,956	2,860,000	29,400	254
17	Crow, Rockford	2,520	1909-17 1930-31 1934-57	584	422,000	13,900	1.8
18	Rum, St. Francis	1,360	1930-31 1933-57	581	421,000	9,260	29
19	Minnesota, Montevideo	6,180	1909-57	601	435,100	24,500	0
20	Blue Earth, Rapidan	2,430	1939-45 1949-57	764	553,100	26,100	6.9
21	Minnesota, Mankato	14,900	1903-57	2,472	1,790,000	66,600	26
22	Minnesota, Carver	16,200	1934-57	3,061	2,216,000	64,100	79
23	Mississippi, St. Paul	36,800	1892-1957	9,890	7,150,000	125,000	632
24	St. Croix, St. Croix Falls (Wisc.)	5,930	1902-05 1908-57	4,047	2,930,000	54,900	75
25	Mississippi, Winona	59,200	1928-57	24,820	18,000,000	190,000	2,250
26	Root River, Houston	1,560	1938-57	826	599,000	38,700	197

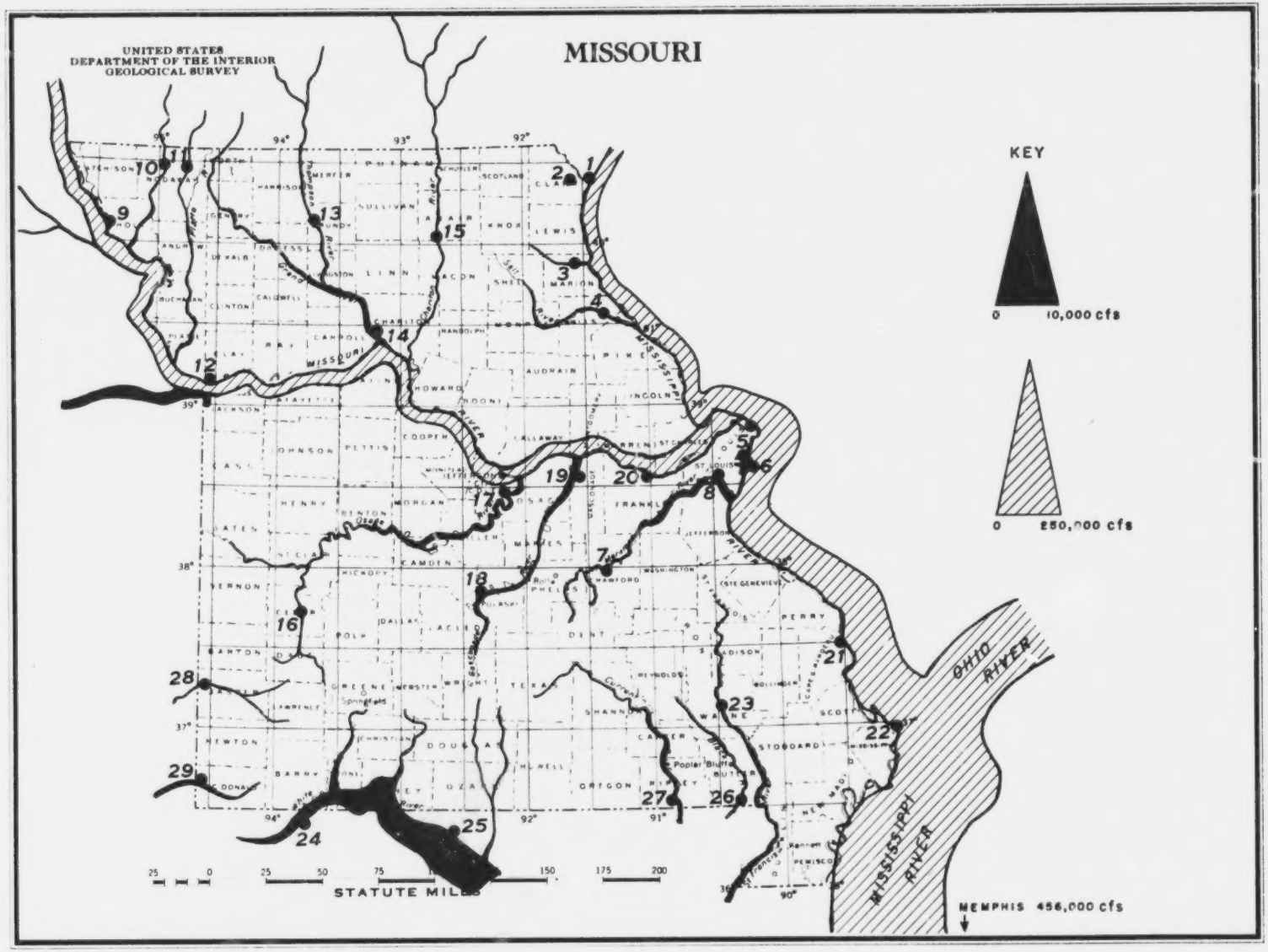

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MISSISSIPPI
KEY
0
10,000 cfs
0
600,000 cfs
DE SOTO
BENTON
TIPPAH
ALCORN
MARSHALL
PRENTISS
TUNICA
TATE
TUNICA
LAFAYETTE
PONTOTOC
TISHOMINGO
QUITMAN
YALOBUSHA
CALHOUN
CHICKASAW
ITAWAMBA
BOLIVA
WEBSTER
CLAY
CHOCTAW
OKTIBBEHA
WASHINGTON
HUMPHREYS
ATTALA
WINSTON
NOXUBEE
LEAKE
NESHOBA
KEMPER
SCOTT
NEWTON
LAUDERDALE
JACKSON
RANKIN
SMITH
CLARKE
CLAIBORNE
COPIAH
SIMPSON
JASPER
JEFFERSON
COVINGTON
JONES
WAYNE
Natchez
JEFFERSON DAVIS
ADAMS
FRANKLIN
LINCOLN
WILKINSON
AMITE
PIKE
LAMAR
GREENE
PEARL RIVER
STONE
GEORGE
HARRISON
HANCOCK
Gulfport
MISSISSIPPI SOUND
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

MISSISSIPPI

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Oldtown Cr., Tupelo	112	1944-46 1951-57	177	128,000	23,000	0
2	Tombigbee, Columbus	4,490	1900-4 1905-12 1928-57	6,019	4,360,000	148,000	138
3	Tombigbee, Cochrane (Ala.)	5,990	1939-57	7,909	5,730,000	163,000	165
4	Leaf, Hattiesburg	1,760	1938-57	2,530	1,830,000	71,300	332
5	Chickasawhay, Enterprise	913	1938-57	1,157	838,000	33,500	18
6	Pascagoula, Merrill	6,600	1930-57	9,327	6,750,000	154,000	696
7	Escatawpa, Wilmer (Ala.)	506	1945-57	944	683,000	35,000	37
8	Pearl, Edinburg	898	1928-57	1,027	744,000	31,400	1.7
9	Pearl, Monticello	5,040	1938-57	6,039	4,370,000	59,300	289
10	Pearl, Bogalusa (La.)	6,630	1938-57	8,718	6,310,000	60,000	1,100
11	Mississippi, Memphis (Tenn.)	932,800	1933-57	456,000	330,000,000	1,980,000	79,200
12	Mississippi, Helena (Ark.)	941,800	1897-1957*	458,000**	332,000,000	(2,041,000 est.)	81,000
13	Tallahatchie, Etta	526	1938-57	781	565,000	79,000	4.1
14	Coldwater, Arkabutla	1,000	1937-41 1942-57	1,353	980,000	30,200	0
15	Yazoo, Greenwood	7,450	1907-12 1927-57	9,619	6,960,000	72,900	536
16	Sunflower, Sunflower	767	1935-57	960	695,000	7,700	81
17	Mississippi, Vicksburg	1,144,500	1928-57	559,300	405,000,000	2,080,000	99,400
18	Big Black, Bovina	2,810	1936-57	3,281	2,380,000	53,600	65

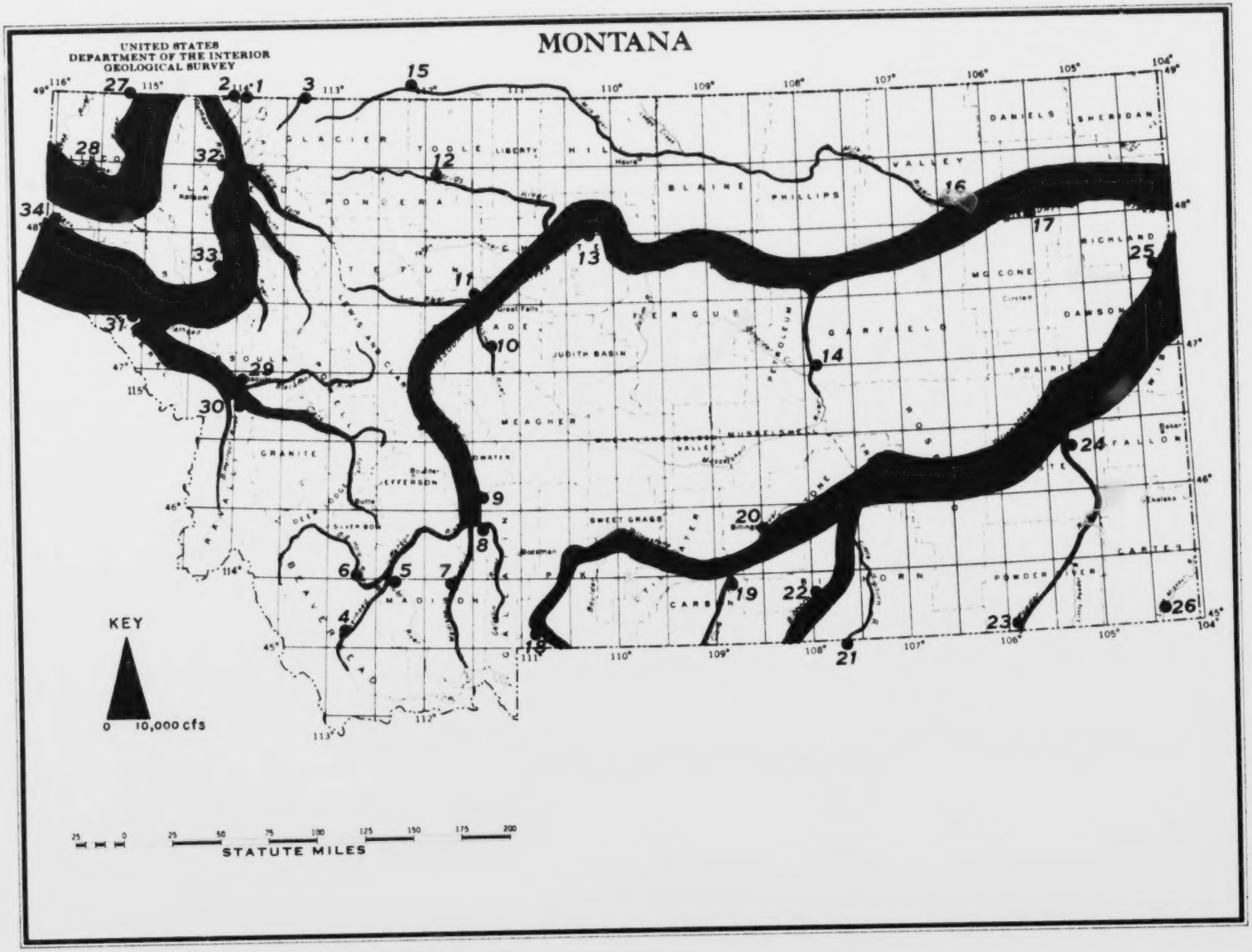
* Intermittent record - from U. S. Miss. River Commission Report
** Estimated - from U. S. Miss. River Commission Report


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MISSOURI
KEY
0 10,000 cfs
0 250,000 cfs
OHIO RIVER
MISSISSIPPI RIVER
MEMPHIS 456,000 cfs
STATUTE MILES

MISSOURI

Flow of Selected Streams

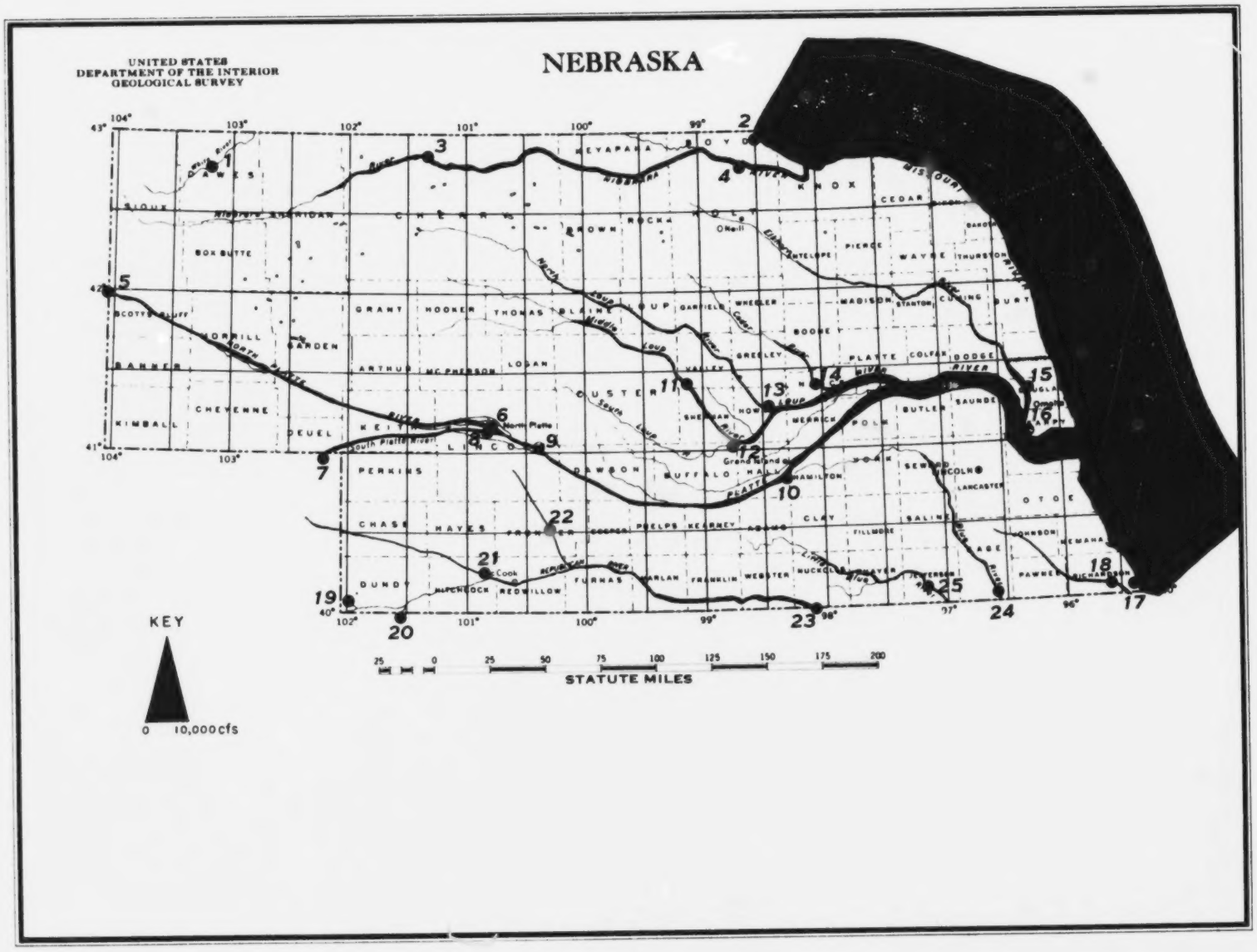
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Mississippi, Keokuk	119,000	1878-1957	61,180	44,290,000	314,000	5,000
2	Fox, Weyland	400	1922-57	215	155,700	25,000	0
3	So. Fabius, Taylor	620	1934-57	331	239,600	19,700	0
4	Salt, New London	2,480	1922-57	1,530	1,108,000	58,700	0
5	Mississippi, Alton	171,500	1928-57	72,700	67,110,000	437,000	7,960
6	Mississippi, St. Louis	701,000	1861-1956	175,600	127,100,000	844,000	27,600
7	Meramec, Steelville	781	1922-56	591	427,900	47,800	74
8	Meramec, Eureka	3,788	1904-6 1921-56	3,061	2,216,000	120,000	196
9	Missouri, Rulo (Neb.)	418,905	1949-57	40,050	28,990,000	358,000	4,420
10	Nodaway, Burl. Jct.	1,240	1922-57	454	328,700	32,000	1.1
11	102, Maryville	500	1932-57	172	124,500	14,200	0
12	Missouri, Kansas City	489,200	1897-1957	55,980	40,530,000	573,000	1,500
13	Thompson, Trenton	1,670	1921-22 1928-57	808	585,000	95,000	1
14	Grand, Sumner	6,880	1924-57	3,451	2,498,000	180,000	10
15	Chariton, Prairie Hill	1,870	1929-57	964	697,900	25,600	4.6
16	Sac, Stockton	1,160	1921-57	1,044	755,800	120,000	1.34
17	Osage, St. Thomas	14,500	1931-57	10,080	7,298,000	216,000	375
18	Gasconade, Hazel Green	1,250	1929-57	1,014	734,100	76,400	18
19	Gasconade, Rich Ftn.	3,180	1921-57	2,957	2,141,000	96,400	271
20	Missouri, Hermann	528,200	1897-1957	79,970	57,900,000	618,000	4,200
21	Mississippi, Thebes	717,200	1933-37	186,100	134,700,000	893,000	45,200
		717,200	1939-45	186,100	134,700,000	893,000	45,200
22	Ohio, Metropolis	203,000	1934-57	262,800	190,300,000	1,780,000	20,600
23	St. Francis, Patterson	956	1920-55	1,117	808,000	79,200	8
24	White, Beaver (Ark.)	1,238	1909-10 1921-55	1,552	1,124,000	105,000	1
25	White, Flippin (Ark.)	6,067	1928-55	6,208	4,494,000	215,000	90
26	Black, Poplar Bluff	1,245	1936-37 1939-55	1,304	944,100	52,600	236
27	Current, Doniphan	2,038	1918-55	2,774	2,008,000	94,400	879
28	Spring, Waco	1,164	1924-55	890	644,300	103,000	4.2
29	Elk, Tiff City	872	1939-55	842	609,000	137,000	5.1
30	Mississippi, Memphis	932,800	1933-57	456,000	330,100,000	1,980,000	79,200


MONTANA
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
KEY
0 10,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES

MONTANA

Flow of Selected Streams

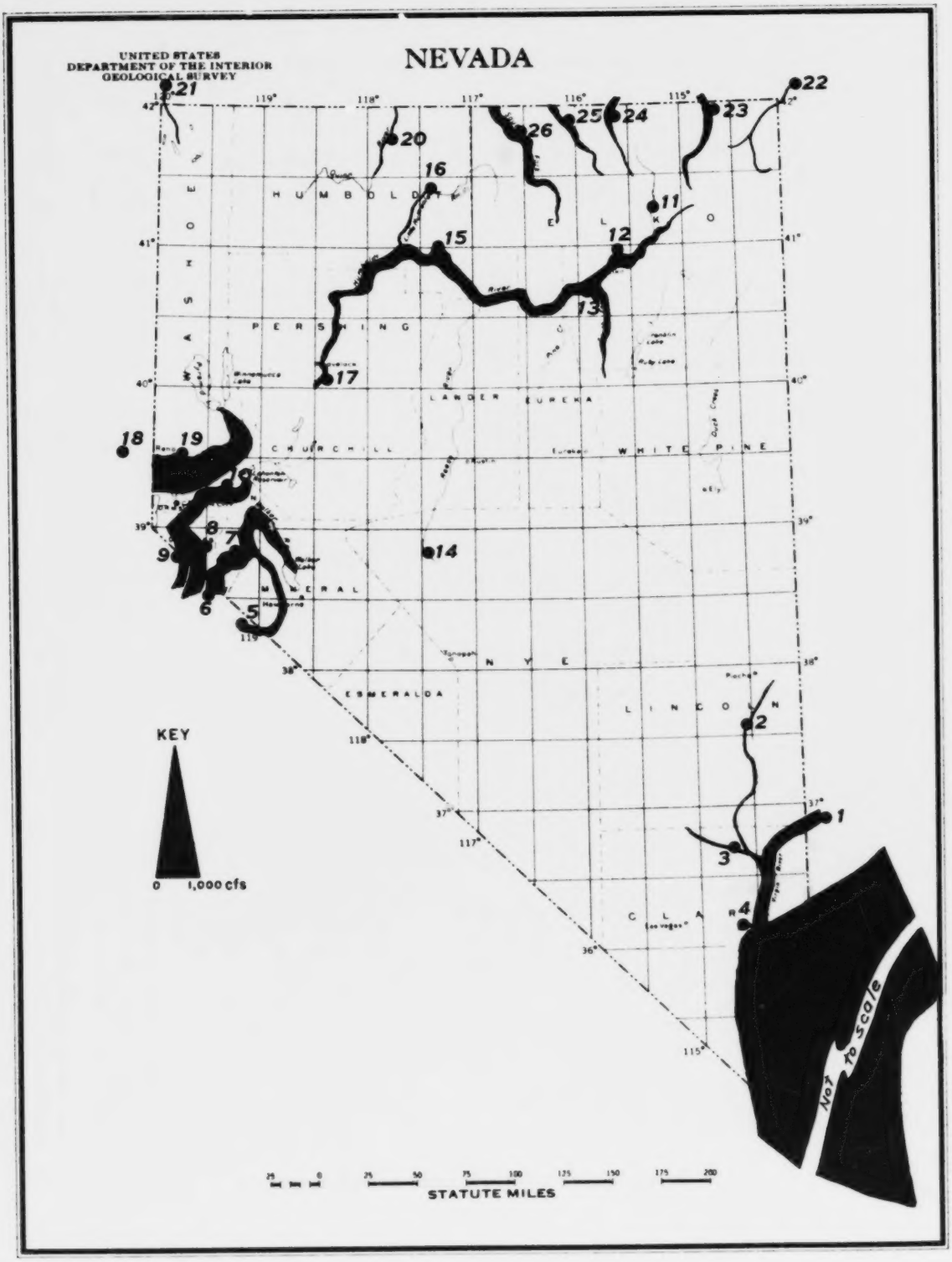
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Waterton, international boundary	61	1947-57	273	197,600	2,710	8.7
2	Boundary Creek, international boundary	21	1947-57	78	56,470	904	4
3	St. Mary, international boundary	470	1916-57	713	516,200	40,000	16
4	Beaverhead, Baratts	2,740	1907-11 1914-31 1934-57	409	296,100	3,720	69
5	Ruby, Twin Bridges	986	1941-42 1946-57	201	145,500	1,500	1.8
6	Big Hole, Melrose	2,470	1932-57	1,129	817,400	23,000	49
7	Madison, McAllister	2,180	1938-57	1,612	1,167,000	7,750	409
8	Gallatin, Logan	1,805	1895-98 1902-05 1928-32 1934-57	949	687,000	7,870	130
9	Missouri, Toston	14,000	1941-57	5,049	3,655,000	32,000	1,100
10	Smith, Eden	1,601	1951-57	280	202,700	12,300	20
11	Sun, Vaughn	2,200	1934-57	712	515,500	17,900	21
12	Marias, Shelby	2,610	1902-04 1931-32 1934-57	950	687,800	40,000	10
13	Missouri, Virgelle	34,300	1935-57	7,769	5,625,000	122,000	638
14	Musselshell, Mosby	8,010	1930-32 1934-57	228	165,100	18,000	0
15	Milk, Milk River (Alberta)	1,104	1916-57	304	220,100	7,460	0
16	Milk, Nashua	23,300	1939-57	750	543,000	45,300	4.6
17	Missouri, Wolf Point	83,200	1928-57	9,170	6,640,000	66,800	320
18	Yellowstone, Corwin Springs	2,630	1889-93 1910-57	3,034	2,197,000	32,000	389
19	Clark Fork Yellowstone, Edgar	2,115	1930-31 1934-57	1,039	752,200	10,900	41
20	Yellowstone, Billings	11,870	1928-29 1930-32 1934-57	6,692	4,845,000	64,800	430
21	Little Bighorn, Wyola	199	1939-57	143	103,500	2,730	21
22	Bighorn, St. Xavier	19,600	1934-57	3,575	2,588,000	37,400	228
23	Powder, Moorhead	8,030	1934-57	464	335,900	15,300	0
24	Powder, Locate	12,900	1938-57	626	453,200	31,000	0
25	Yellowstone, Sidney	69,450	1934-57	11,810	8,550,000	138,000	860
26	Little Missouri, Alzada	780	1915-16 1917-19 1923-25 1930-32 1935-57	76.5	55,380	6,000	0
27	Kootenay, Newgate (B.C.)	7,660	1930-57	10,210	7,392,000	98,200	994
28	Kootena, Libby	10,240	1910-57	11,840	8,586,000	121,000	895
29	Blackfoot, Bonner	2,290	1899-1901 1903-04 1939-57	1,579	1,143,000	18,300	200
30	Clark Fork, Missoula	5,999	1929-57	2,774	2,008,000	31,500	115
31	Clark Fork, St. Regis	10,709	1910-57	7,352	5,323,000	68,900	1,000
32	Flathead, Columbia Falls	1,533	1910-12 1913-15 1935-57	2,874	2,081,000	31,500	198
33	Flathead, Polson	7,096	1907-57	11,490	8,318,000	82,800	5
34	Clark Fork, Heron	21,800	1928-50	19,940	14,400,000	153,000	1,210


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NEBRASKA
KEY
0 10,000cfs
STATUTE MILES

NEBRASKA

Flow of Selected Streams

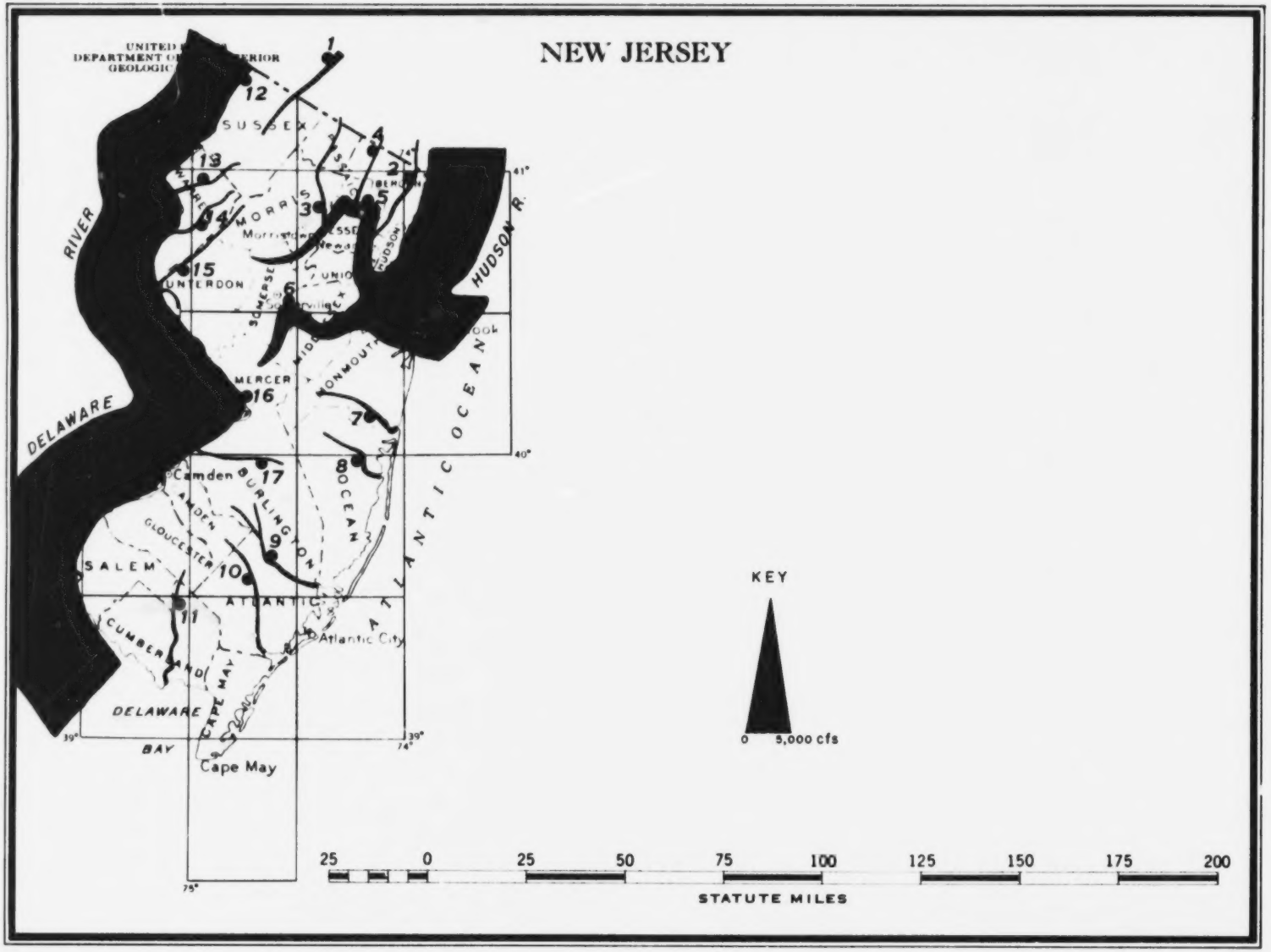
No.	River and Station	DRAINAGE AREA (Sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	White, Whitney	676	1948-57	22.2	16,070	4,480	0
2	Missouri, Fort Randall Dam (S. Dak.)	263,500	1947-57	27,250	19,730,000	447,000	3,460
3	Niobrara, Cody	-	1948-57	318	230,200	4,170	40
4	Niobrara, Spencer	10,400	1927-36 1940-57	1,378	997,600	27,400	5
5	North Platte, Wyo.-Neb. State line	22,100	1929-57	715	518,000	17,900	21
6	North Platte, North Platte	32,000	1943-57	645	467,000	-	-
7	South Platte, Julesburg (Colo.)	22,800	1902-57	455	329,000	31,300	0
8	South Platte, North Platte	24,300	1943-57	317	229,000	-	-
9	Platte, Brady	56,900	1943-57	404	292,000	-	-
10	Platte, Grand Island	59,500	1943-57	1,140	824,000	-	-
11	Middle Loup, Arcadia	4,730	1937-57	799	578,500	-	92
12	South Loup, St. Michael	2,560	1943-57	248	179,500	-	7
13	North Loup, St. Paul	4,460	1895-97 1928-57	888	642,900	90,000	85
14	Cedar, Fullerton	1,220	1940-57	239	173,000	10,100	33
15	Elkhorn, Waterloo	6,900	1899-1903 1911-15 1928-57	1,068	773,200	100,000	50
16	Platte, Ashland	83,800	1942-52	6,040	4,370,000	107,000	265
17	Missouri, Rulo	418,905	1949-57	40,050	28,990,000	358,000	4,420
18	Nemaha, Falls City	1,340	1944-57	619	448,100	51,400	4.3
19	North Fork Republican, Colo.-Neb. State line	320	1931-57	48.9	35,400	2,110	0
20	South Fork Republican, Bemkelman	2,580	1894-95 1902-06 1930-32 1937-57	63.1	45,600	150,000	0
21	Frenchman Creek, Culbertson	3,080	1931-57	121	87,600	15,000	7
22	Medicine Creek, Harry Strunk Lake	-	1950-57	69.7	50,460	11,200	14
23	Republican, Hardy	22,400	1913-14 1932-57	757	548,000	225,000	0
24	Big Blue, Barneston	4,420	1932-57	737	533,600	57,700	14
25	Little Blue, Fairbury	2,320	1908-15 1929-57	357	258,500	36,800	14


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NEVADA
HUMBOLDT
ELKO
EUREKA
LANDER
PERSHING
CHURCH ILL
WHITE PINE
MINERAL
NYE
ESMERALDA
LINCOLN
CLARK
KEY
0 1,000 cfs
Not to scale
STATUTE MILES

NEVADA

Flow of Selected Streams

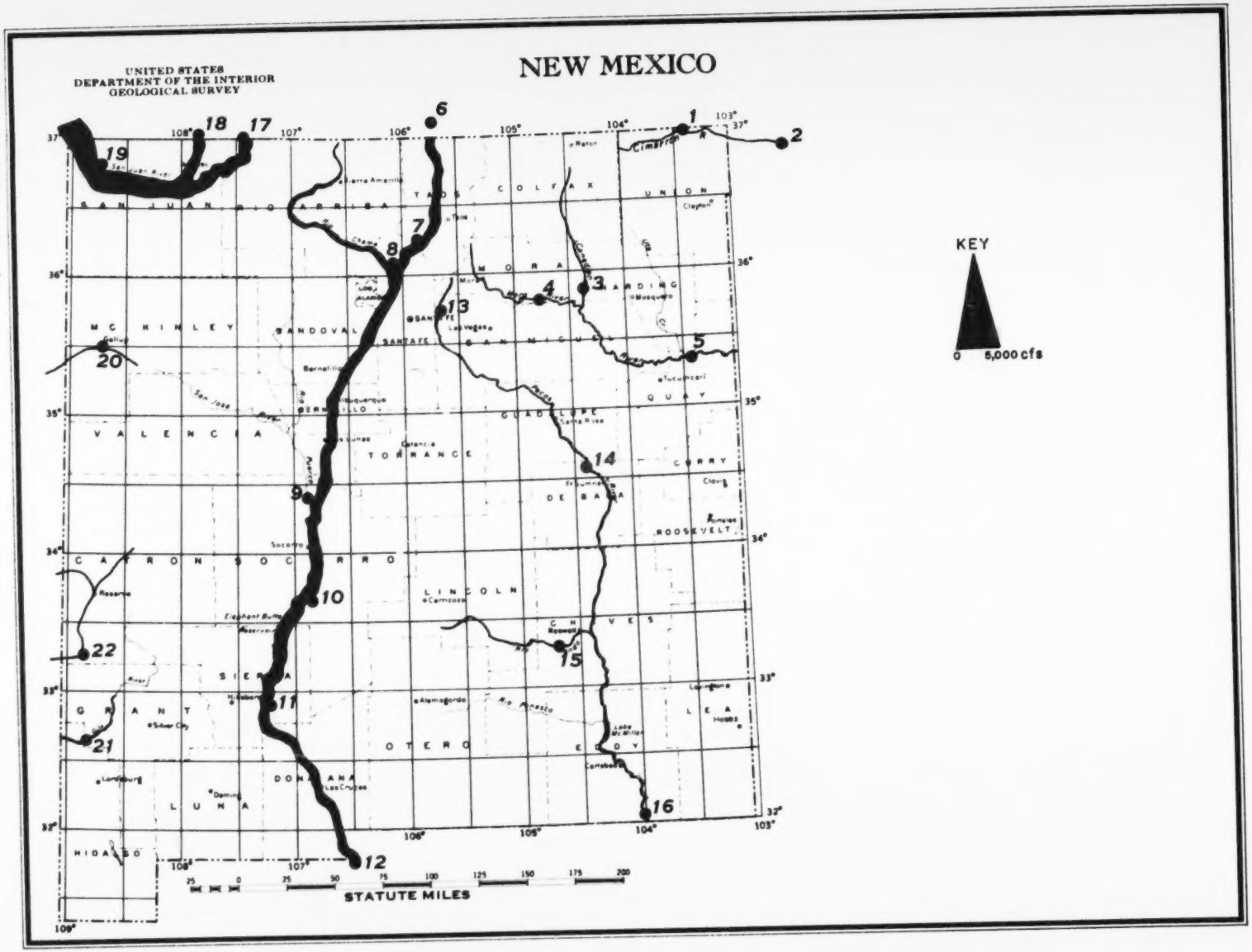
No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Virgin, Littlefield (Ariz.)	5,090	1929-57	238	172,300	22,000	50
2	Meadow Valley Wash, Caliente	-	1951-57	14.2	10,280	1,500	0.6
3	Muddy River, Glendale	8,120	1904-6 1913-14 1950-57	47.7	34,530	1,460	22
4	Colorado, Hoover Dam	167,500	1934-57	14,600	10,570,000	51,200	0
5	East Walker, Bridgeport (Calif.)	362	1922-24 1925-57	132	95,560	1,240	0.2
6	West Walker, Coleville (Calif.)	245	1902-7 1915-37	277	200,540	6,500	5
7	West Walker, Hudson	201	1914-24 1947-57	201	145,500	2,700	13
8	East Fork Carson, Gardnerville	344	1890-93 1901-3 1908-10 1925-28 1935-37 1939-57	402	291,000	17,600	8
9	West Fork Carson, Woodfords (Calif.)	66	1901-3 1905-6 1939-57	114	82,530	4,810	8.2
10	Carson, Fort Churchill	1,450	1911-57	371	268,600	9,680	0
11	Marys, Deeth	415	1943-57	61.2	44,310	1,250	0.1
12	Humboldt, Elko	-	1897-1902 1944-57	231	167,200	3,860	0
13	South Fork Humboldt above Dixie Cr., Elko	-	1949-57	113	81,810	1,700	0.6
14	Reese, Ione	44	1951-57	10.3	7,460	512	0
15	Humboldt, Comus	-	1917-22 1946-57	263	190,400	5,860	0.3
16	Little Humboldt, Paradise	1,030	1943-57	24.7	17,880	1,100	4.5
17	Humboldt, Lovelock	14,200	1913-16 1918-22 1924, 1927 1950-57	91.4	66,170	3,540	0
18	Little Truckee, Hobart Mills (Calif.)	33	1947-57	93.6	67,760	7,010	1.1
19	Truckee, Reno	1,070	1906-19 1947-57	814	589,300	20,800	18
20	Quinn, McDermitt	-	1948-57	36.5	26,420	1,580	0.2
21	Twenty Mile Creek, Adel (Oreg.)	194	1910-15 1918-19 1940-44 1945-57	50.0	36,200	3,260	0
22	Goose Creek, Oakley (Idaho)	600	1911-16 1919-57	45.4	32,870	1,670	0
23	Salmon Falls Creek, Jacinto	1,450	1910-16 1918-57	134	97,010	2,200	2.8
24	Bruneau, Rowland	-	1913-18	121	87,600	1,440	5
25	Owyhee, Owyhee	458	1939-57	147	106,400	2,710	2
26	South Fork Owyhee, Whiterock	-	1955-57	195	141,200	3,420	0


NEW JERSEY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
SUSSEX
MORRIS
HUNTERDON
SOMERSET
UNION
ESSEX
HUDSON
MIDDLESEX
MONMOUTH
MERCER
OCEAN
BURLINGTON
CAMDEN
GLOUCESTER
SALEM
ATLANTIC
CUMBERLAND
CAPE MAY
DELAWARE RIVER
DELAWARE BAY
HUDSON R.
ATLANTIC OCEAN
Camden
Atlantic City
Cape May
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
KEY
0 5,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES
41°
40°
39°
75°
74°

NEW JERSEY

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Wallkill, Pellets Island (N.Y.)	385	1920-56	577	417,700	12,400	9
2	Hackensack, Riverdale	58.0	1941-56	99.9	72,330	1,450	5.5
3	Rockaway, Boonton	119	1913-56	134	97,010	7,560	0
4	Pamapo, Mahwah	118	1922-56	219	158,500	12,400	7
5	Passaic, Little Falls	762	1897-1956	1,213	878,200	28,000	0
6	Raritan, Bound Brook	779	1945-56	1,231	891,200	30,800	43
7	Manasquan, Squankum	43.4	1931-56	72.0	52,130	2,940	12.9
8	Toms, Toms River	124	1929-56	206	149,100	1,540	56
9	Batso, Batso	70.5	1927-38 1939-56	125	90,500	1,310	15
10	Great Egg Harbor, Folsom	56.3	1925-56	83.9	60,740	1,440	19
11	Maurice, Norma	113	1932-56	170	123,100	7,360	27
12	Delaware, Montague	3,480	1936-40 1940-56	6,622	4,794,000	250,000	412
13	Paulins, Blairstown	126	1921-56	196	141,900	8,750	2.8
14	Pequest, Pequest	108	1921-56	154	111,500	1,810	14
15	Musconetcong, Bloomsbury	143	1903-06 1921-56	230	166,500	6,960	8.1
16	Delaware, Trenton	6,780	1913-56	11,850	8,579,000	329,000	1,220
17	North Branch Rancocos, Pemberton	111	1921-56	164	118,700	1,730	9

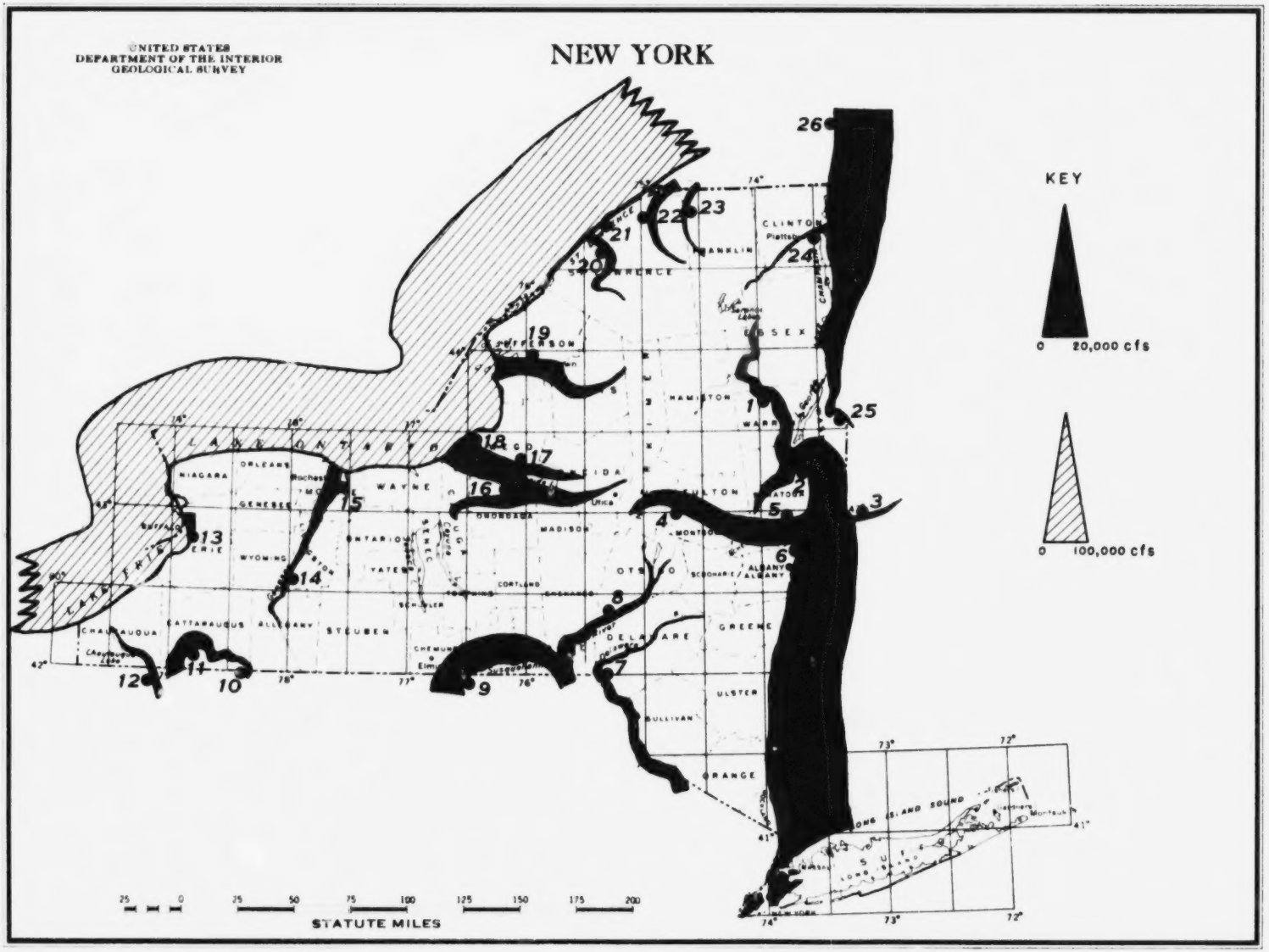

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NEW MEXICO
KEY
0 5,000 cfs
STATUTE MILES
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

49883 O - 60 - 5

NEW MEXICO

Flow of Selected Streams

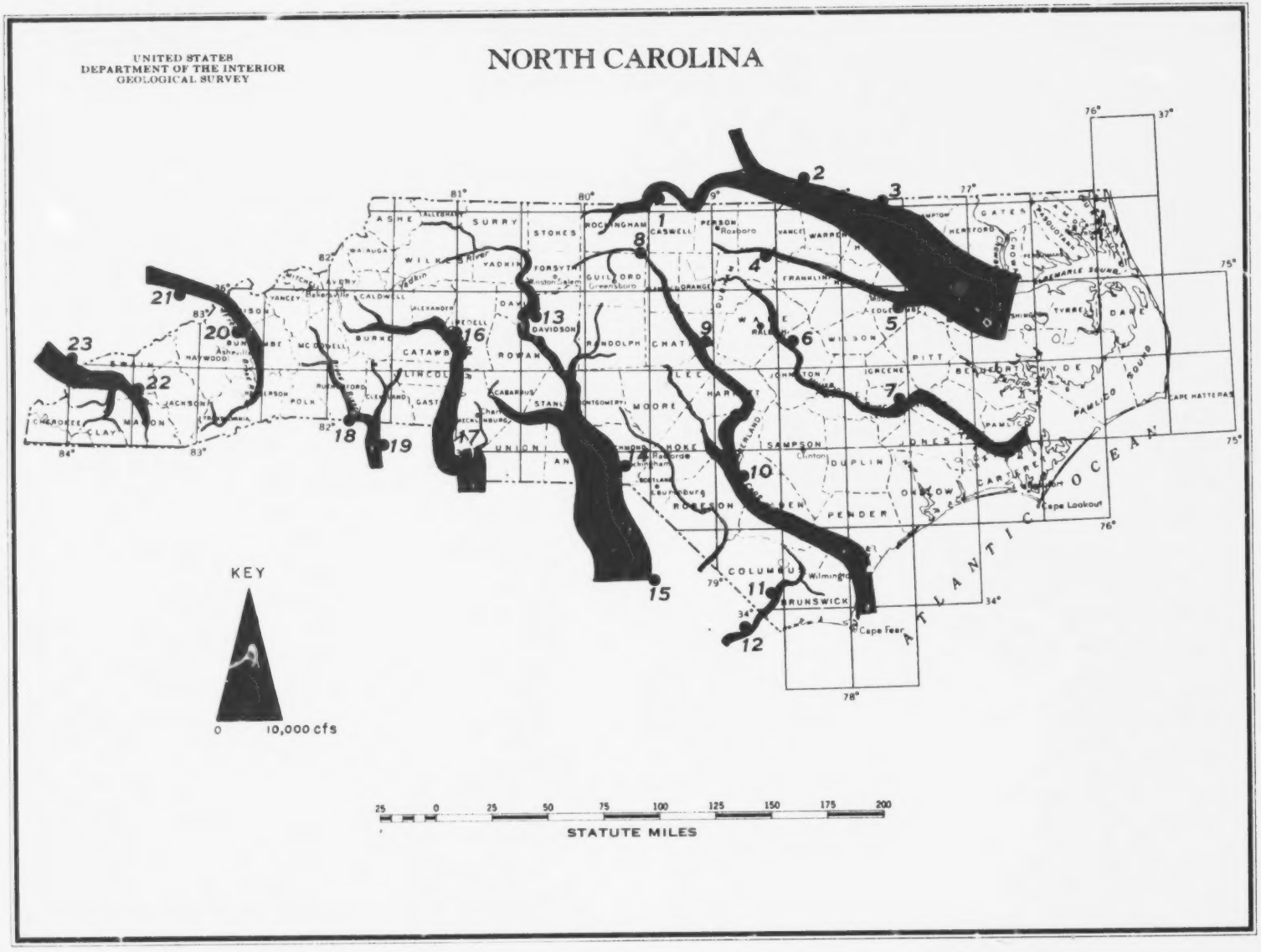
No.	River and station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Cimarron, Guy	545	1942-56	13.4	9,700	8,500	0
2	Cimarron, Boise City (Okla.)	1,955	1905-6 1942-54	42.4	30,700	17,200	0
3	Canadian, Roy	4,066	1936-56	147	106,400	63,800	0
4	Mora, Shoemaker	1,104	1914-18 1919-24 1927-56	59.3	42,930	15,200	0
5	Canadian, Logan	11,141	1938-56	295	213,600	219,000	0
6	Rio Grande, Lobatos	7,700	1899-1956	663	480,000	13,100	0
7	Rio Grande, Embudo	10,400	1889-93 1894-1903 1912-16 1917-56	999	723,200	15,900	35
8	Rio Chama, Chamita	3,200	1913-17 1918-56	608	246,200	7,870	1
9	Rio Puerco, Bernardo	5,860	1940-56	57.9	41,920	5,200	0
10	Rio Grande, San Marcial	27,700	1896-1956	1,387	1,004,000	50,000	0
11	Rio Grande, Caballo Dam	30,200	1938-56	969	701,500	7,650	0.1
12	Rio Grande, El Paso (Texas)	-	1924-57	686	496,703	13,500	0
13	Pecos, Pecos	189	1930-56	95.8	69,360	1,960	6.1
14	Pecos, below Alamagordo Dam	4,390	1937-56	228	165,100	42,800	0
15	Rio Hondo, Roswell	947	1939-56	33.8	24,470	27,000	0
16	Pecos, Red Bluff	19,540	1937-56	281	203,400	52,600	1.4
17	San Juan, Rosa	1,990	1896-97 1910-57	1,238	896,300	25,000	39
18	Animas, Cedar Hill	1,090	1933-57	918	664,600	13,100	90
19	San Juan, Shiprock	12,900	1926-57	2,426	1,756,000	80,000	8
20	Puerco River, Gallup	558	1940-45	8.6	6,230	3,700	0
21	Gila, Virden	3,203	1927-57	158	114,400	41,700	1
22	San Francisco, Glenwood	1,653	1927-57	61.0	44,160	7,800	2.5


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NEW YORK
KEY
0 20,000 cfs
0 100,000 cfs
STATUTE MILES
LAKE ONTARIO
LAKE ERIE
LONG ISLAND SOUND
NIAGARA
ORLEANS
GENESEE
WAYNE
ONONDAGA
MADISON
ONTARIO
YATES
SCHUYLER
CHEMUNG
STEUBEN
CHAUTAUQUA
CATTARAUGUS
ALLEGANY
TIOGA
CORTLAND
DELAWARE
GREENE
ULSTER
SULLIVAN
ORANGE
ESSEX
CLINTON
FRANKLIN
ST LAWRENCE
JEFFERSON
LEWIS
HAMILTON
FULTON
SCHOHARIE
ALBANY
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

NEW YORK

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Hudson, North Creek	792	1907-56	1,565	1,133,000	28,900	112
2	Sacandaga, Hadley	1,055	1930-56	2,100	1,520,000	8,560	6
3	Hoosic, Eagle Bridge	510	1910-21 1923-56	924	668,900	55,400	24
4	Mohawk, Little Falls	1,348	1927-56	2,799	2,026,000	25,300	214
5	Mohawk, Cohoes	3,456	1925-56	5,747	4,161,000	130,000	23
6	Hudson, Green Island	8,090	1946-56	14,400	10,430,000	181,000	1,270
7	West Branch Delaware, Hale Eddy	593	1913-56	1,067	772,500	28,900	32
8	Susquehanna, Unadilla	984	1938-56	1,637	1,185,000	21,500	58
9	Susquehanna, Waverly	4,780	1937-56	7,610	5,509,000	112,000	247
10	Allegheny, Eldred (Pa.)	550	1939-57	978	708,000	55,000	24
11	Allegheny, Red House	1,690	1903-57	2,800	2,027,000	49,100	80
12	Conewango, Russell (Pa.)	816	1939-57	1,475	1,068,000	14,400	58
13	Niagara, Buffalo	260,400	1860-1956	203,000	147,000,000	274,000	100,000
14	Genesee, Portageville	982	1908-56	1,230	890,500	44,400	52
15	Genesee, Rochester	2,467	1920-56	2,785	2,016,000	34,400	10
16	Seneca, Baldwinsville	3,130	1950-56	3,465	2,509,000	16,700	373
17	Oneida, Caughdenoy	1,377	1947-56	2,424	1,755,000	9,160	62
18	Oswego, Oswego	5,121	1934-56	6,532	4,729,000	37,500	353
19	Black, Waterton	1,876	1920-56	3,926	2,842,000	33,900	137
20	Oswegatchie, Heuvelton	973	1916-56	1,699	1,230,000	15,800	130
21	St. Lawrence, Ogdensburg	295,200	1860-1956	241,000	174,500,000	315,000	139,000
22	Raquette, Raymondville	1,131	1944-56	2,053	1,486,000	11,000	7
23	St. Regis, Brasher Center	616	1910-17 1919-56	1,061	768,100	16,800	34
24	Saranac, Plattsburg	608	1903-30 1943-56	839	607,400	11,500	18
25	Poultney, Fair Haven (Vt.)	187	1928-56	248	179,500	14,800	2.9
26	Richelieu, Chambly (Que.)	8,440	1875-1916	12,700	9,194,000	—	—


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NORTH CAROLINA
KEY
0
10,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES
ATLANTIC OCEAN
Cape Lookout
Cape Fear
Cape Hatteras
Albemarle Sound
Pamlico Sound
Raleigh
Wilmington
Fayetteville
Asheville
Winston-Salem
Greensboro
Rockingham
Roxboro
Clinton
Rockingham
Laurinburg
Lumberton
Whiteville
Ashe
Alleghany
Surry
Stokes
Rockingham
Caswell
Person
Vance
Warren
Halifax
Northampton
Gates
Chowan
Perquimans
Pasquotank
Camden
Currituck
Dare
Tyrrell
Hyde
Beaufort
Washington
Martin
Bertie
Watauga
Wilkes
Yadkin
Forsyth
Guilford
Alamance
Orange
Person
Granville
Franklin
Warren
Avery
Mitchell
Yancey
Caldwell
Alexander
Davie
Davidson
Randolph
Chatham
Wake
Johnston
Wilson
Edgecombe
Nash
Pitt
Greene
Lenoir
Jones
Craven
Pamlico
Carteret
McDowell
Burke
Catawba
Rowan
Cabarrus
Stanly
Montgomery
Moore
Lee
Harnett
Sampson
Duplin
Onslow
Pender
New Hanover
Brunswick
Columbus
Robeson
Cumberland
Hoke
Scotland
Richmond
Anson
Union
Mecklenburg
Gaston
Lincoln
Cleveland
Rutherford
Polk
Henderson
Buncombe
Madison
Haywood
Jackson
Swain
Graham
Macon
Clay
Cherokee
1
2
3
4
5
6
7
8
9
10
11
12
13
15
16
17
18
19
20
21
22
23

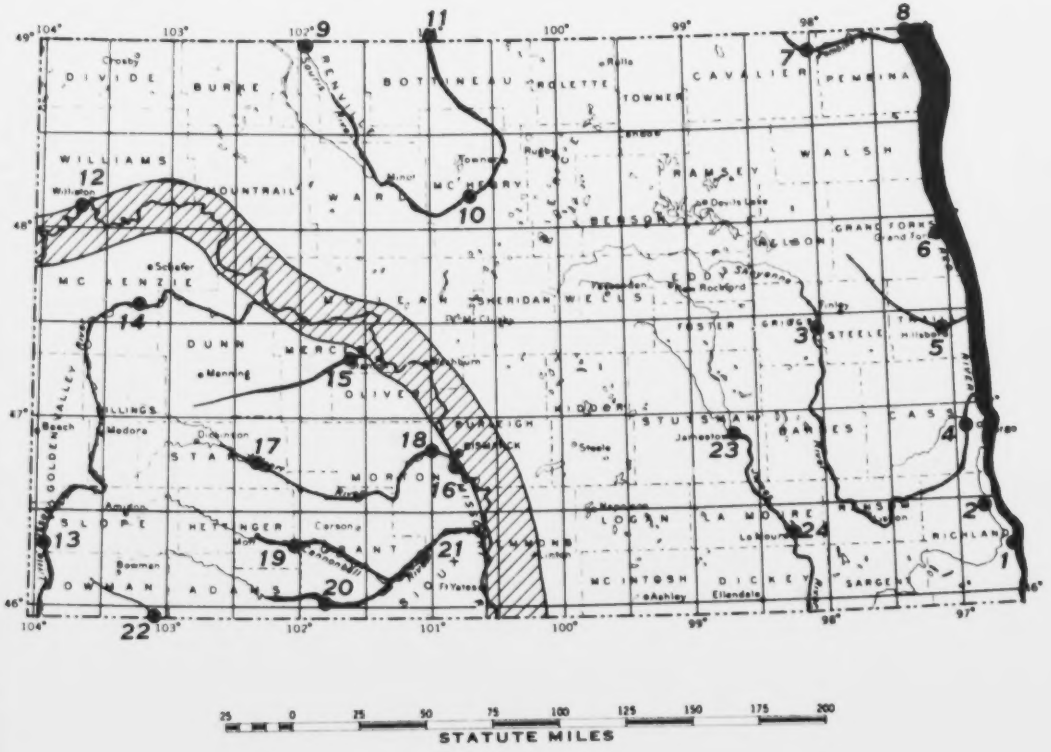
NORTH CAROLINA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Dan, Danville (Va.)	2,050	1934-56	2,303	1,670,000	75,000	40
2	Roanoke, Buggs Island (Va.)	7,780	1947-56	7,589	5,490,000	76,000	99
3	Roanoke, Roanoke Rapids	8,410	1912-56	8,213	5,950,000	261,000	472
4	Tar, Tar River	161	1939-56	151	109,000	13,100	.07
5	Tar, Tarboro	2,140	1896-1900 1931-56	2,223	1,610,000	37,200	36
6	Neuse, Clayton	1,140	1927-56	1,196	866,000	22,900	44
7	Neuse, Kinston	2,690	1930-56	2,746	1,990,000	25,900	124
8	Haw, Benaja	168	1928-56	161	1,160,000	12,300	0.6
9	Haw, Pittsboro	1,310	1928-56	1,222	885,000	79,000	3.1
10	Cape Fear, Tarheel	4,810	1937-56	4,705	3,410,000	-	170
11	Waccamaw, Freeland	626	1939-56	606	439,000	10,200	0.1
12	Waccamaw, Longs	1,030	1950-56	728	527,000	10,300	1.0
13	Yadkin, Yadkin College	2,280	1928-56	2,802	2,030,000	80,200	177
14	Pee Dee, Rockingham	6,870	1927-56	7,611	5,510,000	270,000	50
15	Pee Dee, Peedee (S.C.)	8,830	1939-56	8,414	6,090,000	220,000	700
16	Catawba, Catawba	1,535	1896-99 1935-56	2,226	1,610,000	177,000	90
17	Catawba, Rock Hill	3,050	1895-1902 1942-56	4,418	3,200,000	151,000	143
18	Broad, Boiling Springs	211	1925-56	283	205,000	15,000	4
19	Broad, Gaffney (S.C.)	1,490	1939-56	2,262	1,640,000	119,000	140
20	French Broad, Marshall	1,332	1942-57	2,205	1,600,000	33,100	193
21	French Broad, Newport (Tenn.)	1,858	1903-05 1921-57	2,766	2,000,000	76,300	208
22	Little Tennessee, Needmore	436	1944-57	1,013	733,000	20,200	71
23	Little Tennessee, Calderwood	1,862	1912-18 1922-56	4,270	3,090,000	82,000	7.2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NORTH DAKOTA



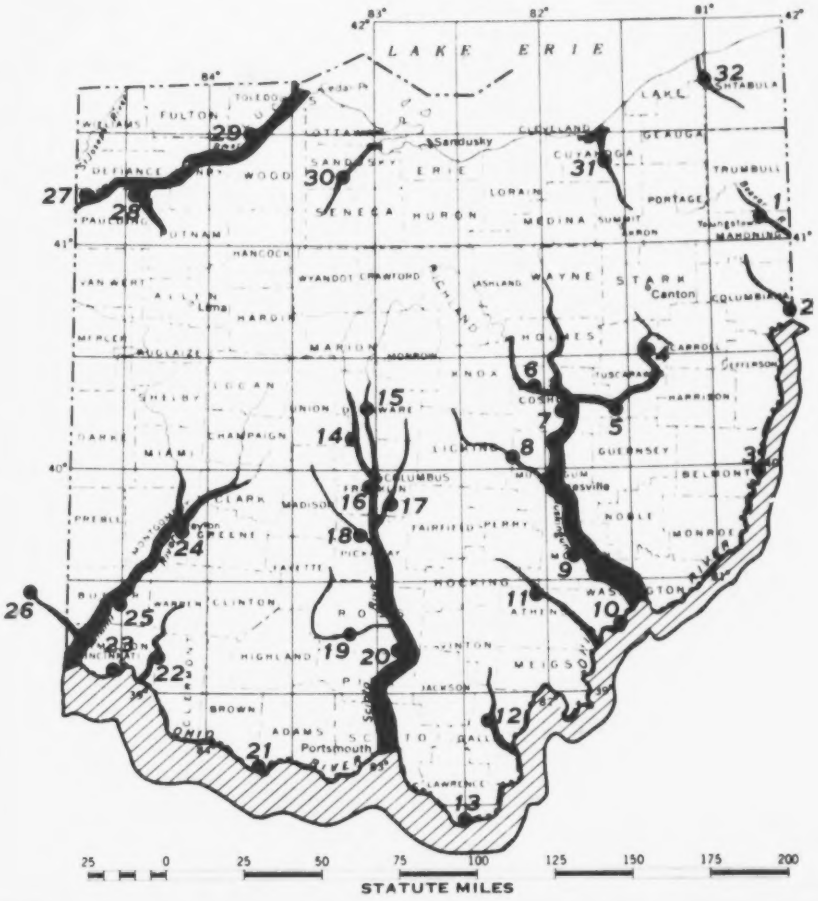
NORTH DAKOTA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Red, Wahpeton	4,010	1943-57	541	391,700	7,130	15
2	Wild Rice, Abercrombie	2,170	1932-33 1936-37 1938-57	70	50,680	5,500	0
3	Sheyenne, Cooperstown	6,780	1945-57	117	84,700	7,830	0.1
4	Sheyenne, West Fargo	9,270	1929-57	146	105,700	2,810	2
5	Goose, Hillsboro	1,220	1938-57	56.7	41,050	9,420	0
6	Red, Grand Forks	30,100	1882-1957	2,316	1,676,000	80,000	2
7	Pembina, Walhalla	3,109	1939-57	220	159,300	20,400	0
8	Red, Emerson (Manitoba)	40,200	1912-57	2,755	1,995,000	95,500	0.9
9	Souris, Sherwood	9,330	1934-57	125	90,500	7,400	0
10	Souris, Verendrye	12,200	1944-57	230	166,500	4,200	0.3
11	Souris, Westhope	17,600	1935-57	227	164,300	6,400	0
12	Missouri, Williston	164,500	1928-57	20,580	14,900,000	231,000	1,320
13	Little Missouri, Marmarth	4,570	1938-57	346	250,500	45,000	0
14	Little Missouri, Watford City	8,490	1934-57	598	432,900	110,000	0
15	Knife, Hazen	2,350	1937-57	202	146,200	26,500	0
16	Missouri, Bismarck	186,400	1928-57	21,240	15,380,000	500,000	1,800
17	Heart, Richardton	1,240	1920-21 1943-57	119	86,150	23,400	0
18	Heart, Mandan	3,310	1928-32 1937-57	268	194,000	30,500	0
19	Cannonball, Bentley	1,140	1943-57	99.2	71,820	51,800	0
20	Cedar, Pretty Rock	1,340	1943-57	90.4	65,450	48,000	0
21	Cannonball, Breien	4,100	1934-57	266	192,600	94,800	0
22	North Fork Grand, Haley	509	1945-57	40.3	29,180	14,100	0
23	James, Jamestown	2,840	1928-34 1937-39 1943-57	54.8	39,670	6,390	0
24	James, La Moure	5,740	1950-57	71.1	51,470	5,730	0

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OHIO



KEY

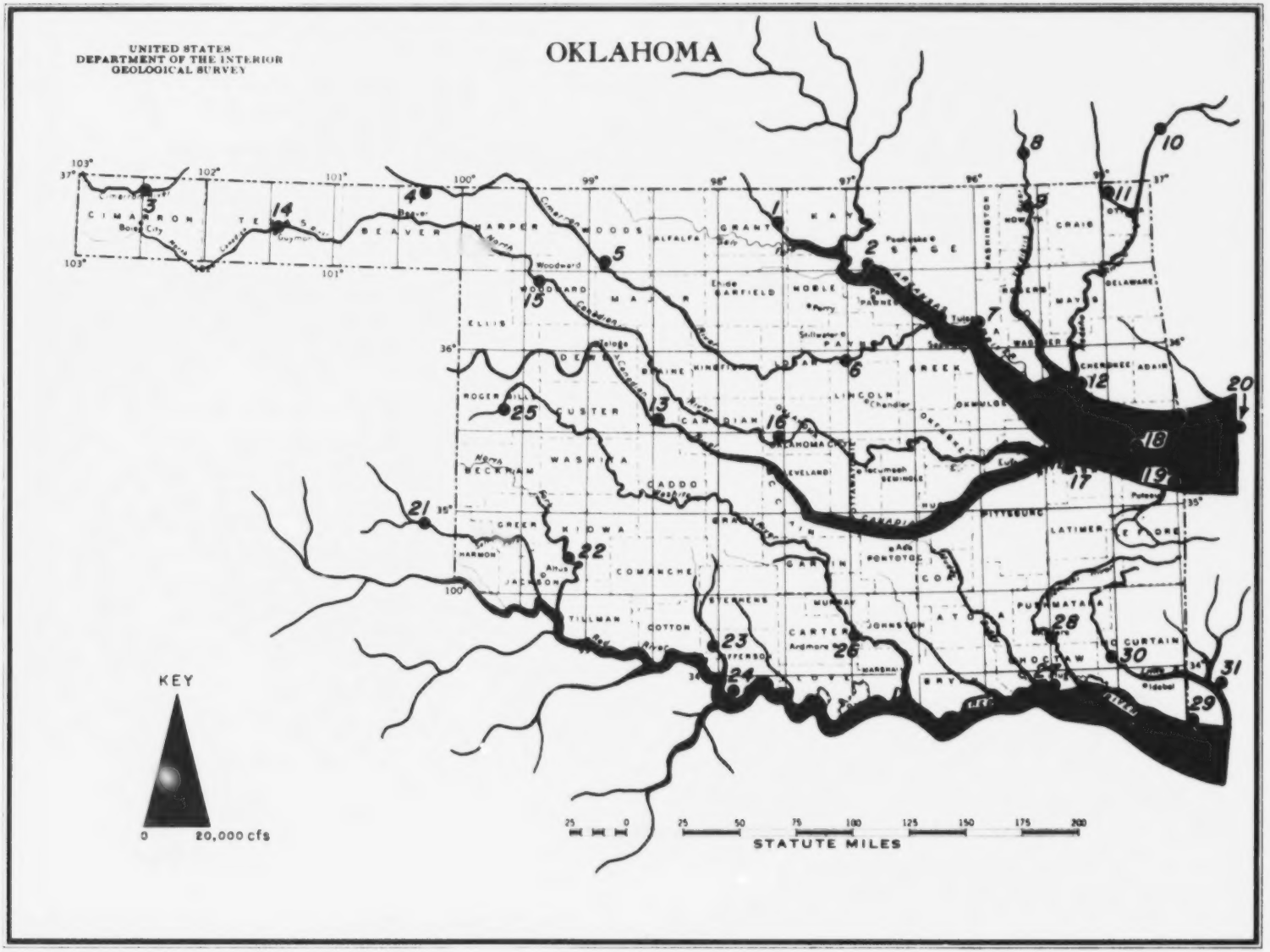
0 10,000 cfs

0 100,000 cfs

OHIO

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Mahoning, Youngstown	899	1921-57	840	608,000	17,600	28
2	Little Beaver, East Liverpool	505	1915-57	520	376,000	25,000	12
3	Ohio, Bellaire	25,170	1941-57	40,970	29,700,000	412,000	-
4	Tuscarawas, Dover	1,398	1923-57	1,374	995,000	26,400	2.3
5	Tuscarawas, Newcomerstown	2,436	1921-57	2,444	1,770,000	46,800	120
6	Walhonding, Nellie	1,502	1921-57	1,441	1,040,000	43,800	3.3
7	Muskingum, Coshocton	4,847	1936-57	4,867	3,520,000	78,700	342
8	Licking, Toboso	672	1903-5 1921-57	668	484,000	32,500	34
9	Muskingum, McConnelsville	7,411	1921-57	7,246	5,250,000	126,000	218
10	Ohio, Parkersburg (W.Va.)	35,600	1940-57	50,880	36,800,000	440,000	2,290
11	Hocking, Athens	944	1915-57	982	710,000	30,400	9
12	Raccoon Creek, Adamsville	587	1915-35 1938-57	658	476,000	15,500	1.4
13	Ohio, Huntington (W.Va.)	55,900	1934-57	77,580	56,200,000	654,000	3,200
14	Scioto, Dublin	988	1921-57	764	553,000	27,000	0.4
15	Olentangy, Stratford	438	1934-35 1938-57	361	261,000	15,600	0.96
16	Scioto, Columbus	1,624	1920-57	1,332	964,000	40,300	42
17	Big Walnut Creek, Rees	544	1921-35 1938-57	486	352,000	21,800	5
18	Darby Creek, Darbyville	533	1921-35 1938-57	426	308,000	22,600	1.4
19	Paint Creek, Bourneville	808	1921-36 1938-57	782	566,000	52,100	6.7
20	Scioto, Higby	5,129	1930-57	4,292	3,110,000	177,000	244
21	Ohio, Maysville (Ky.)	70,130	1940-57	91,720	66,400,000	635,000	-
22	Little Miami, Milford	1,195	1915-17	1,203	871,000	69,900	27
23	Ohio, Cincinnati	76,580	1939-57	96,560	69,900,000	894,000	-
24	Miami, Dayton	2,513	1913-57	2,206	1,600,000	59,800	78
25	Miami, Hamilton	3,639	1910-18 1927-57	3,343	2,420,000	352,000	100
26	Whitewater, Brookville (Ind.)	1,239	1915-17 1923-57	1,262	914,000	69,200	49
27	Maumee, Antwerp	2,049	1921-35 1939-56	1,689	1,220,000	26,200	24
28	Auglaize, Defiance	2,329	1915-35 1940-56	1,686	1,220,000	52,500	-
29	Maumee, Waterville	6,314	1921-35 1939-56	4,751	3,440,000	94,000	32
30	Sandusky, Fremont	1,248	1923-35 1938-56	913	661,000	27,300	5.0
31	Cuyahoga, Independence	709	1921-27 1927-35 1940-56	735	532,000	14,200	14
32	Grand, Madison	587	1922-35 1938-56	656	475,000	16,600	0


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OKLAHOMA
KEY
0 20,000 cfs
STATUTE MILES

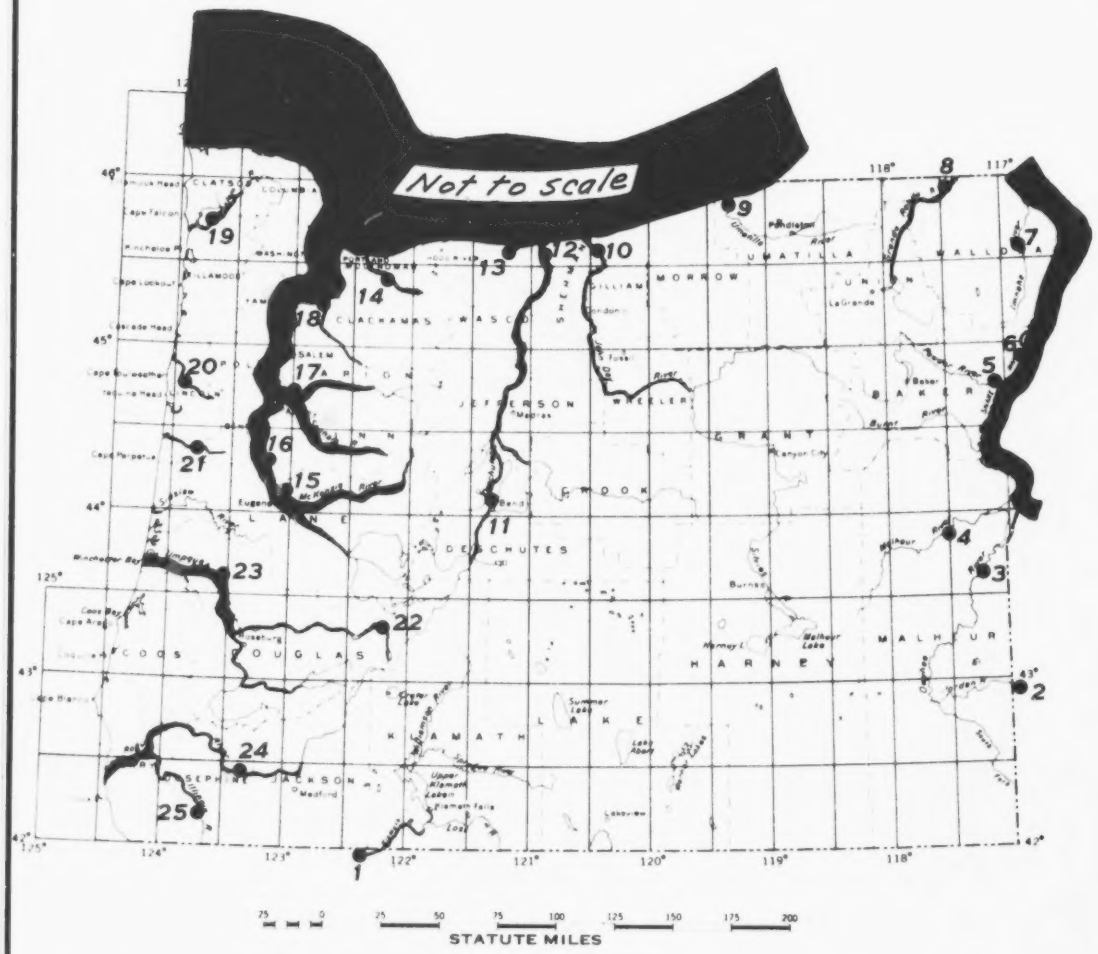
OKLAHOMA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Chikaskia, Blackwell	1,859	1935-57	469	339,500	85,000	0
2	Arkansas, Ralston	54,465	1925-57	4,448	3,220,000	179,000	14
3	Cimarron, Boise City	1,955	1905-6 1942-54	42.4	30,700	17,200	0
4	Cimarron, Mocane	8,670	1942-57	106	76,740	53,400	0
5	Cimarron, Waynoka	13,334	1903-5 1937-57	445	322,200	94,500	0
6	Cimarron, Perkins	17,852	1939-57	1,255	908,600	149,000	2.5
7	Arkansas, Tulsa	74,615	1925-57	6,403	4,564,000	235,000	27
8	Verdigris, Independence (Kans.)	2,892	1895-1904 1921-57	1,566	1,134,000	117,000	0
9	Verdigris, Lenapah	3,639	1938-57	2,095	1,517,000	137,000	0
10	Spring, Waco (Mo.)	1,164	1924-55	890	644,300	103,000	4.2
11	Neosho, Commerce	5,876	1939-57	3,484	2,522,000	267,000	0
12	Arkansas, Muskogee	96,674	1925-57	19,990	14,410,000	700,000	66
13	Canadian, Bridgeport	25,229	1944-57	447	323,600	150,000	0
14	North Canadian, Guymon	2,139	1937-57	33.5	24,250	44,000	0
15	North Canadian, Woodward	11,589	1938-57	291	210,700	43,000	0
16	North Canadian, Oklahoma City	13,222	1952-57	120	86,880	5,790	0
17	Canadian, Whitefield	47,576	1938-57	6,230	4,510,000	281,000	0.4
18	Arkansas, Sallisaw	147,757	1947-57	26,780	19,390,000	544,000	161
19	Poteau, Wister	993	1938-57	1,210	876,000	78,600	0
20	Arkansas, Van Buren	150,483	1927-57	31,190	22,580,000	850,000	300
21	Salt Fork-Red, Wellington (Tex.)	1,222	1952-57	92	66,610	146,000	0.1
22	North Fork-Red, Headrick	4,244	1905-7 1937-57	344	249,000	30,700	0
23	Beaver Cr., Waurika	563	1953-57	349	252,500	32,200	0
24	Red, Terral	28,723	1938-57	2,710	1,962,000	197,000	43
25	Washita, Cheyenne	794	1937-57	44.2	32,000	69,800	0
26	Washita, Durwood	7,202	1928-57	1,595	1,155,000	98,000	0
27	Red River, Arthur City (Tex.)	44.531	1905-11 1936-57	8,980	6,501,000	400,000	130
28	Kiamichi, Belzoni	1,423	1925-57	1,778	1,287,000	71,400	0
29	Red River, Index (Ark.)	48,030	1936-57	13,150	9,520,000	297,000	378
30	Little River, Wright City	645	1929-31 1944-57	1,034	748,600	75,400	0
31	Little River, Horatio	2,674	1930-57	3,939	2,852,000	120,000	1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OREGON



OREGON

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Klamath, Copco (Calif.)	4,370	1923-57	1,768	1,280,000	12,000	83
2	Jordan Creek, Jordan Valley	440	1945-52 1955-57	217	157,100	3,250	0
3	Owyhee, Owyhee Dam	11,160	1932-57	366	265,000	22,900	0
4	Malhuer, Little Valley	3,010	1949-57	208	150,600	12,300	12
5	Powder, Robinette	1,660	1928-57	534	386,600	5,500	18
6	Snake, Oxbow	72,800	1923-57	17,750	12,850,000	89,700	4,890
7	Imnaha, Imnaha	640	1928-57	488	353,300	6,650	46
8	Grande Ronde, Troy	3,275	1944-57	3,327	2,409,000	30,000	434
9	Umatilla, Umatilla	2,290	1927-57	441	319,300	19,600	0
10	John Day, McDonald Ferry	7,580	1905-57	2,009	1,454,000	27,800	4
11	Deschutes, Bend	1,899	1914-57	596	431,000	2,500	1
12	Deschutes, Biggs	10,500	1898-99 1906-57	5,843	4,230,000	43,600	3,380
13	Columbia, The Dalles	237,000	1878-1957	195,500	141,500,000	1,240,000	35,000
14	Sandy, Bull Run	440	1910-14 1929-57	2,331	1,688,000	58,000	63
15	McKenzie, Coburg	1,310	1944-57	6,194	4,484,000	88,200	1,310
16	Willamette, Harrisburg	3,420	1944-57	13,110	9,491,000	210,000	1,990
17	Santiam, Jefferson	1,790	1907-16 1939-57	7,776	5,630,000	161,000	260
18	Willamette, Wilsonville	8,400	1948-57	31,050	22,480,000	248,000	3,600
19	Nehalem, Foss	667	1939-57	2,702	1,956,000	39,300	54
20	Siletz, Siletz	202	1906-11 1925-57	1,605	1,162,000	37,000	51
21	Alsea, Tidewater	334	1939-57	1,560	1,129,000	32,200	56
22	North Umpqua, Toketee Falls	475	1949-57	1,699	1,230,000	25,000	570
23	Umpqua, Elkton	3,683	1905-57	7,428	5,378,000	218,000	640
24	Roque, Grants Pass Rogue	2,420	1939-57	3,537	2,561,000	135,000	444
25	Illinois, Kerby	364	1926-57	1,186	858,600	56,800	13

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PENNSYLVANIA

KEY

0 20,000 cfs

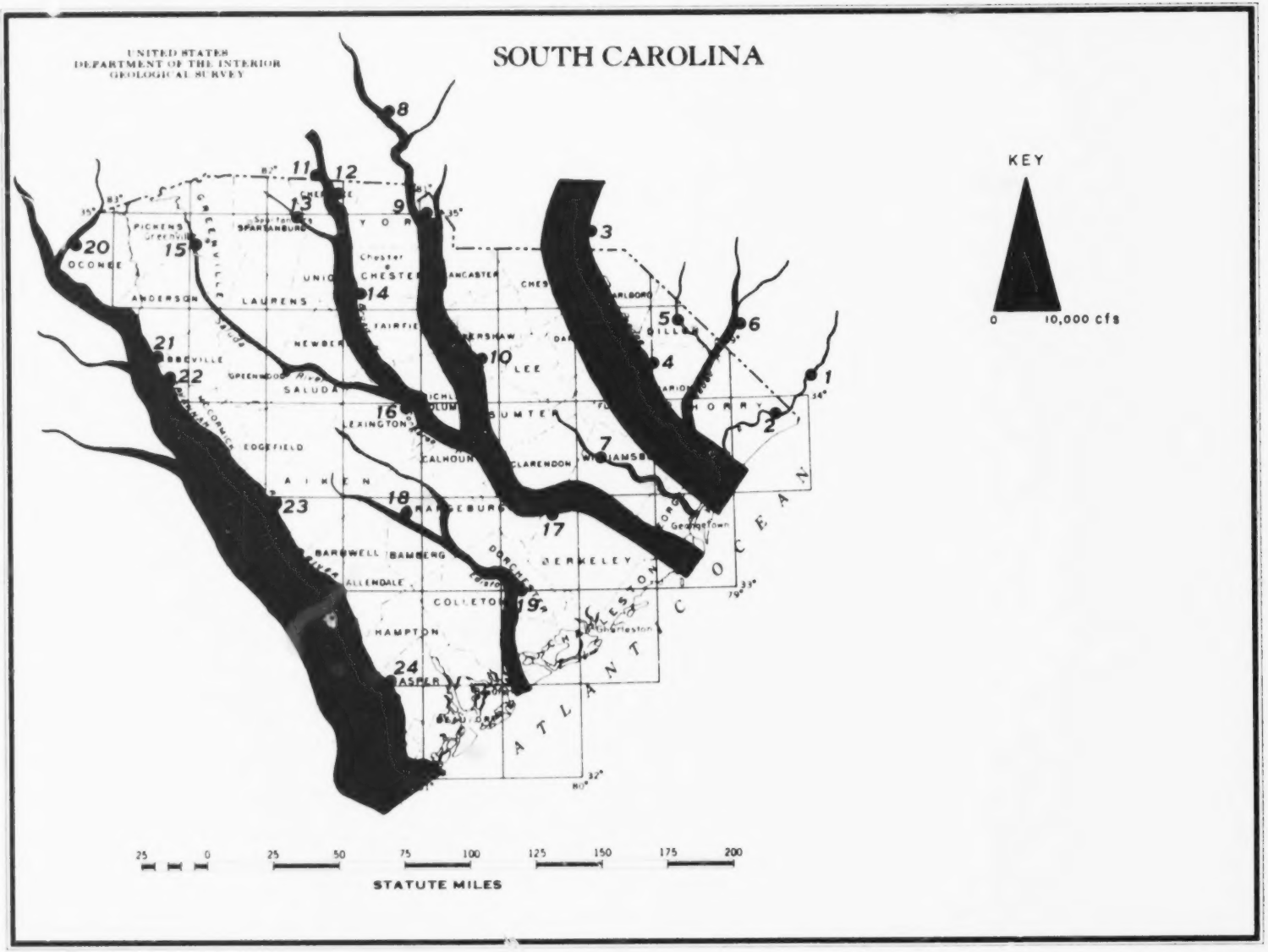
25 0 25 50 75 100 125 150 175 200

STATUTE MILES

PENNSYLVANIA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	West Branch Delaware, Hale Eddy	593	1913-56	1,067	772,500	28,900	32
2	Delaware, Montague (N.J.)	3,480	1940-56	6,622	4,794,000	250,000	412
3	Lehigh, Bethlehem	1,279	1929-56	2,394	1,733,000	92,000	160
4	Delaware, Trenton	6,780	1913-56	11,850	8,579,000	329,000	1,220
5	Schuylkill, Philadelphia	1,893	1931-56	3,009	2,178,000	96,200	7
6	Brandywine, Wilmington (Del.)	314	1947-56	469	339,500	17,800	62
7	Susquehanna, Waverly	4,780	1937-56	7,610	5,509,000	112,000	247
8	Susquehanna, Wilkes-Barre	9,960	1899-1956	13,510	9,781,000	232,000	617
9	West Branch Susquehanna, Renovo	2,975	1908-15 1919-56	4,889	3,539,000	236,000	80
10	West Branch Susquehanna, Lewisburg	6,847	1940-56	10,980	7,949,000	262,000	–
11	Juniata, Newport	3,354	1899-1905 1907-56	4,339	3,141,000	190,000	286
12	Susquehanna, Marietta	25,990	1931-56	36,460	26,400,000	787,000	1,380
13	Allegheny, Eldred	550	1939-57	978	708,000	55,000	24
14	Allegheny, Red House	1,690	1903-57	2,800	2,027,000	49,100	80
15	Conewango, Russell	816	1939-57	1,475	1,068,000	14,400	58
16	French Creek, Utica	1,028	1932-57	1,729	1,252,000	20,700	43
17	Allegheny, Kittanning	8,973	1904-26 1934-57	15,730	11,390,000	269,000	570
18	Monongahela, Greensboro	4,407	1938-57	8,194	5,932,000	140,000	204
19	Youghiogheny, Youghiogheny Dam	436	1939-57	860	622,600	13,700	0
20	Ohio, Sewickley	19,500	1933-57	32,900	23,820,000	574,000	1,800
21	Mahoning, Lowellville	1,076	1942-57	1,085	785,500	23,000	125


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
SOUTH CAROLINA
KEY
0
10,000 cfs
25 0 25 50 75 100 125 150 175 200
STATUTE MILES
ATLANTIC OCEAN
PICKENS
OCONEE
ANDERSON
LAURENS
CHESTER
YORK
LANCASTER
NEWBERRY
LEXINGTON
SUMTER
CLARENDON
CALHOUN
EDGEFIELD
AIKEN
BARNWELL
BAMBERG
ALLENDALE
COLLETON
HAMPTON
BERKELEY
Georgetown
Charleston
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

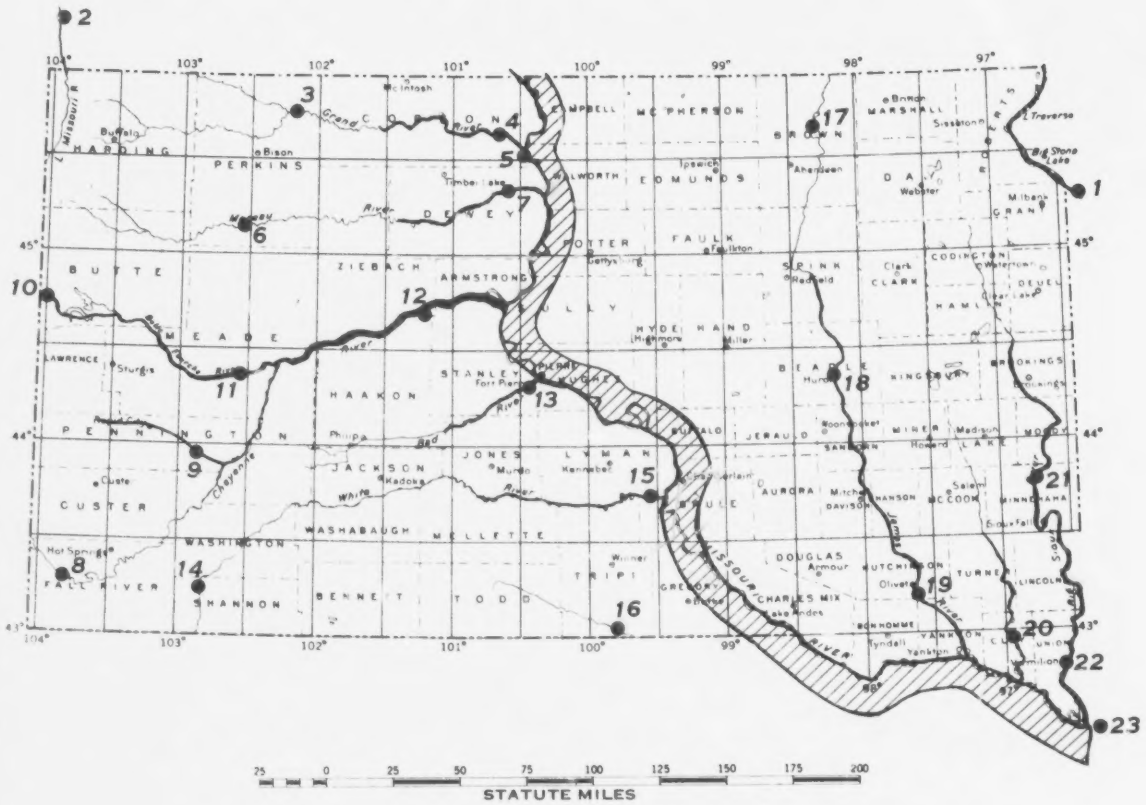
SOUTH CAROLINA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Waccamaw, Freeland (N.C.)	626	1939-56	606	439,000	10,200	0.1
2	Waccamaw, Longs	1,030	1950-56	728	527,000	10,300	1.0
3	Pee Dee, Rockingham (N.C.)	6,870	1927-56	7,611	5,510,000	270,000	50
4	Pee Dee, Peedee	8,830	1939-56	8,414	6,090,000	220,000	700
5	Little Pee Dee, Dillon	524	1939-56	477	345,000	9,810	24
6	Lumber, Broadman (N.C.)	1,220	1929-56	1,200	869,000	13,400	87
7	Black, Kingstree	1,260	1929-56	745	539,000	29,100	2.0
8	Catawba, Catawba (N.C.)	1,535	1896-99 1935-56	2,226	1,610,000	177,000	90
9	Catawba, Rock Hill	3,050	1895-1902 1942-56	4,418	3,200,000	151,000	143
10	Wateree, Camden	5,070	1929-56	5,664	4,100,000	366,000	170
11	Broad, Boiling Springs (N.C.)	864	1925-56	1,369	991,000	73,300	40
12	Broad, Gaffney	1,490	1939-56	2,262	1,640,000	119,000	140
13	Pacolet, Clifton	320	1939-56	457	331,000	26,800	17
14	Broad, Carlisle	2,790	1938-56	3,561	2,580,000	103,000	37
15	Saluda, Greenville	293	1942-56	580	420,000	11,000	28
16	Saluda, Columbia	2,510	1925-56	2,738	1,980,000	67,000	11
17	Santee, Pineville	14,700	1942-56	2,019	1,460,000	155,000	9
18	S.F. Edisto, Denmark	720	1931-56	735	532,000	13,500	46
19	Edisto, Givhans	2,730	1939-56	2,312	1,670,000	24,300	290
20	Chattooga, Clayton (Ga.)	207	1939-56	584	423,000	29,000	88
21	Savannah, Iva	2,231	1950-56	3,656	2,650,000	54,400	477
22	Savannah, Calhoun Falls (Ga.)	2,876	1896-97 1930-31 1938-56	4,810	3,480,000	96,500	492
23	Savannah, Augusta (Ga.)	7,508	1884-91 1896-1906 1927-31 1938-56	10,360	7,500,000	350,000	648
24	Savannah, Clyo (Ga.)	9,850	1937-56	10,830	7,840,000	128,000	2,830

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SOUTH DAKOTA



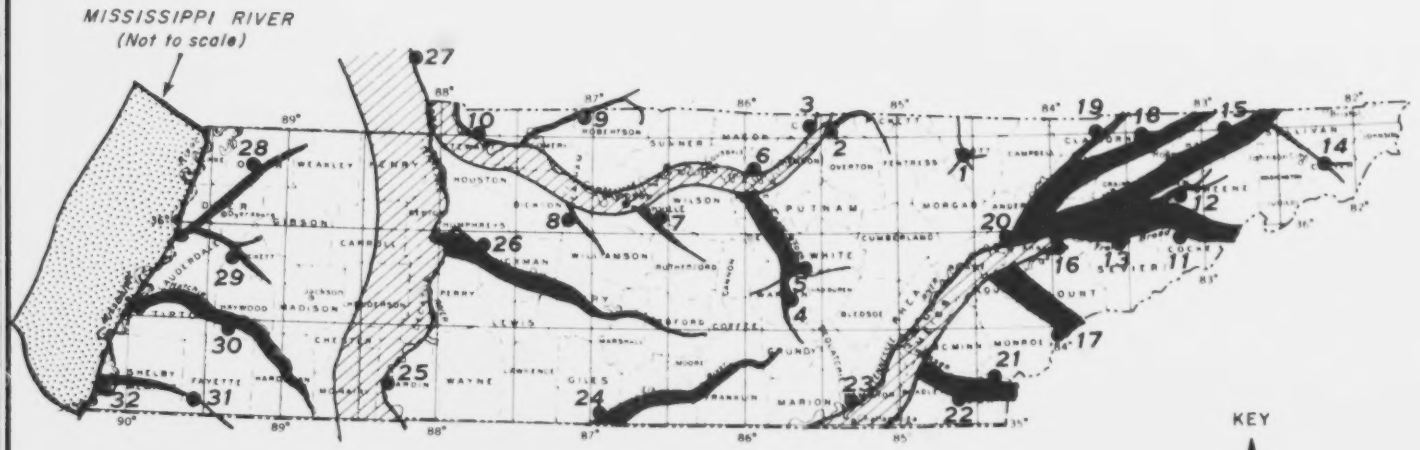
SOUTH DAKOTA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Minnesota, Ortonville (Minn.)	1,160	1938-57	121	87,600	3,060	0
2	Little Missouri, Marmarth (N. Dak.)	4,570	1938-57	346	250,500	45,000	0
3	Grand, Shadehill	3,120	1943-57	162	117,300	58,000	0
4	Grand, Wakpala	5,510	1930-57	296	214,300	82,200	0
5	Missouri, Mobridge	208,700	1929-57	22,210	16,080,000	443,000	2,600
6	Moreau, Bixby	1,570	1948-57	82.9	60,020	15,300	0
7	Moreau, Promise	5,223	1930-57	288	208,500	36,900	0
8	Cheyenne, Edgemont	7,143	1928-32 1946-57	113	81,810	13,000	0
9	Rapid Creek, Farmingdale	602	1946-57	50.4	36,490	2,640	0
10	Belle Fourche, Wyoming-South Dakota State line	3,280	1946-57	82.7	59,870	3,620	0
11	Belle Fourche, Elm Springs	7,210	1928-31 1934-57	381	275,800	35,700	0
12	Cheyenne, Eagle Butte	24,500	1929-57	912	660,300	104,000	0
13	Bad, Fort Pierre	3,107	1928-31 1934-57	175	126,700	34,200	0
14	White, Oglala	2,200	1943-57	68.0	49,230	5,200	0
15	White, Oacoma	10,200	1928-57	546	395,300	51,900	0.5
16	Keyapaha, Wewela	1,070	1938-40 1947-57	74.6	54,010	5,430	0
17	James, Columbia	7,050	1945-57	115	83,260	5,420	-
18	James, Huron	16,800	1930-31 1943-57	238	172,300	5,580	0
19	James, Scotland	21,550	1928-57	335	242,500	10,800	0
20	Vermillion, Wakonda	1,680	1945-57	125	90,500	3,790	0
21	Big Sioux, Dell Rapids	5,060	1948-57	301	217,900	15,500	1
22	Big Sioux, Akron (Iowa)	9,030	1928-57	848	613,900	33,000	7
23	Missouri, Sioux City (Iowa)	314,600	1897-1957	33,250	24,070,000	441,000	2,500

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TENNESSEE



KEY

0 10,000 cfs

0 50,000 cfs

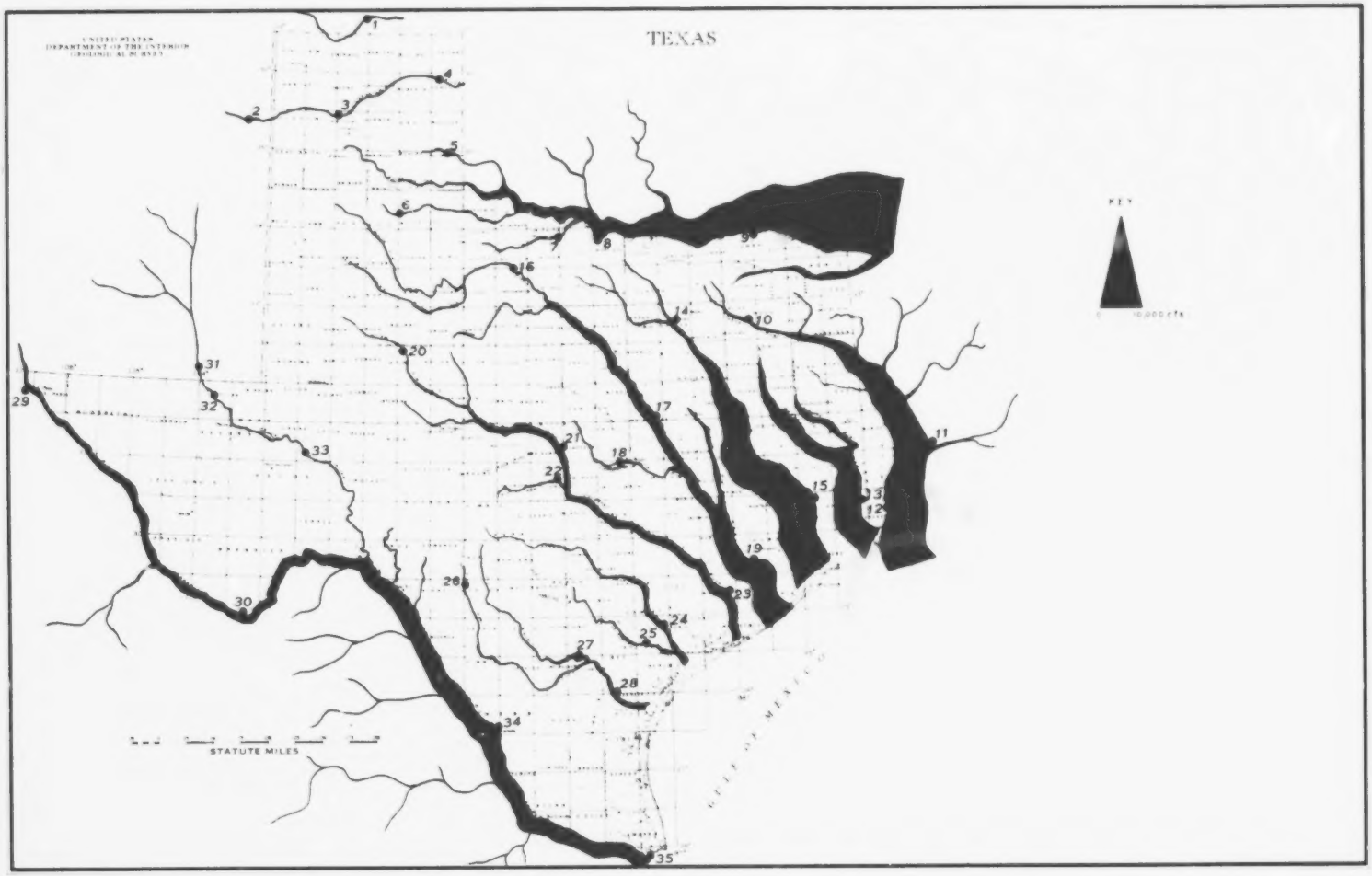
25 0 25 50 75 100 125 150 175 200

STATUTE MILES

TENNESSEE

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	New, New River	382	1934-57	706	511,000	44,300	0
2	Obey, Dale Hollow Dam	935	1939-57	1,338	969,000	41,400	-
3	Cumberland, Celina	7,320	1922-57	11,240	8,140,000	145,000	69
4	Collins, McMinnville	624	1924-57	1,122	812,000	75,300	35
5	Caney Fork, Rock Island	1,640	1914-20 1925-57	3,198	2,320,000	210,000	25
6	Cumberland, Carthage	10,700	1922-57	17,060	12,400,000	210,000	304
7	Stones, Donelson	834	1939-57	1,370	992,000	68,700	10
8	Harpeth, Kingston Springs	687	1925-57	949	687,000	60,000	12
9	Red, Adams	678	1920-57	981	710,000	42,000	30
10	Cumberland, Dover	16,530	1937-57	24,420	17,700,000	188,000	414
11	French Broad, Newport	1,858	1903-5 1921-57	2,766	2,000,000	76,300	208
12	Nolichucky, Morristown	1,679	1921-57	2,185	1,580,000	61,900	22
13	French Broad, Douglas	4,543	1918-57	6,482	4,690,000	95,600	5
14	Watauga, Elizabethton	692	1926-48 1953-57	1,051	761,000	75,100	42
15	Holston, Surgoinsville	2,874	1941-57	3,530	2,560,000	59,600	470
16	Tennessee, Knoxville	8,934	1899-1957	12,730	9,220,000	195,000	1,010
17	Little Tennessee, Calderwood	1,862	1912-18 1922-56	4,270	3,090,000	82,000	7
18	Clinch, Tazewell	1,474	1919-57	2,076	1,500,000	51,100	108
19	Powell, Arthur	685	1919-57	1,137	823,000	33,000	47
20	Clinch, Scarboro	3,300	1936-57	4,543	3,290,000	42,900	111
21	Hiwasee, McFarland	1,136	1942-57	2,348	1,700,000	22,500	30
22	Ocoee, Parksville	595	1911-16 1921-57	1,280	927,000	21,700	10
23	Tennessee, Chattanooga	21,400	1874-1957	37,090	26,900,000	410,000	1,200
24	Elk, Prospect	1,784	1904-7	2,999	2,170,000	104,000	85
25	Tennessee, Savannah	33,140	1930-57	51,810	37,500,000	403,000	1,100
26	Duck, Hurricane Mills	2,557	1925-57	3,935	2,850,000	122,000	185
27	Tennessee, Paducah (Ky.)	40,200	1889-1957	63,730	46,100,000	500,000	500
28	Obion, Obion	1,880	1929-57	2,441	1,770,000	99,500	230
29	South Fork Forked Deer, Chestnut Bluff	1,100	1929-57	1,410	1,020,000	45,000	102
30	Hatchie, Stanton	1,940	1929-57	2,956	2,140,000	59,000	217
31	Wolf, Rossville	503	1929-57	688	498,000	40,000	100
32	Mississippi, Memphis	932,800	1933-57	456,000	330,100,000	1,980,000	79,200

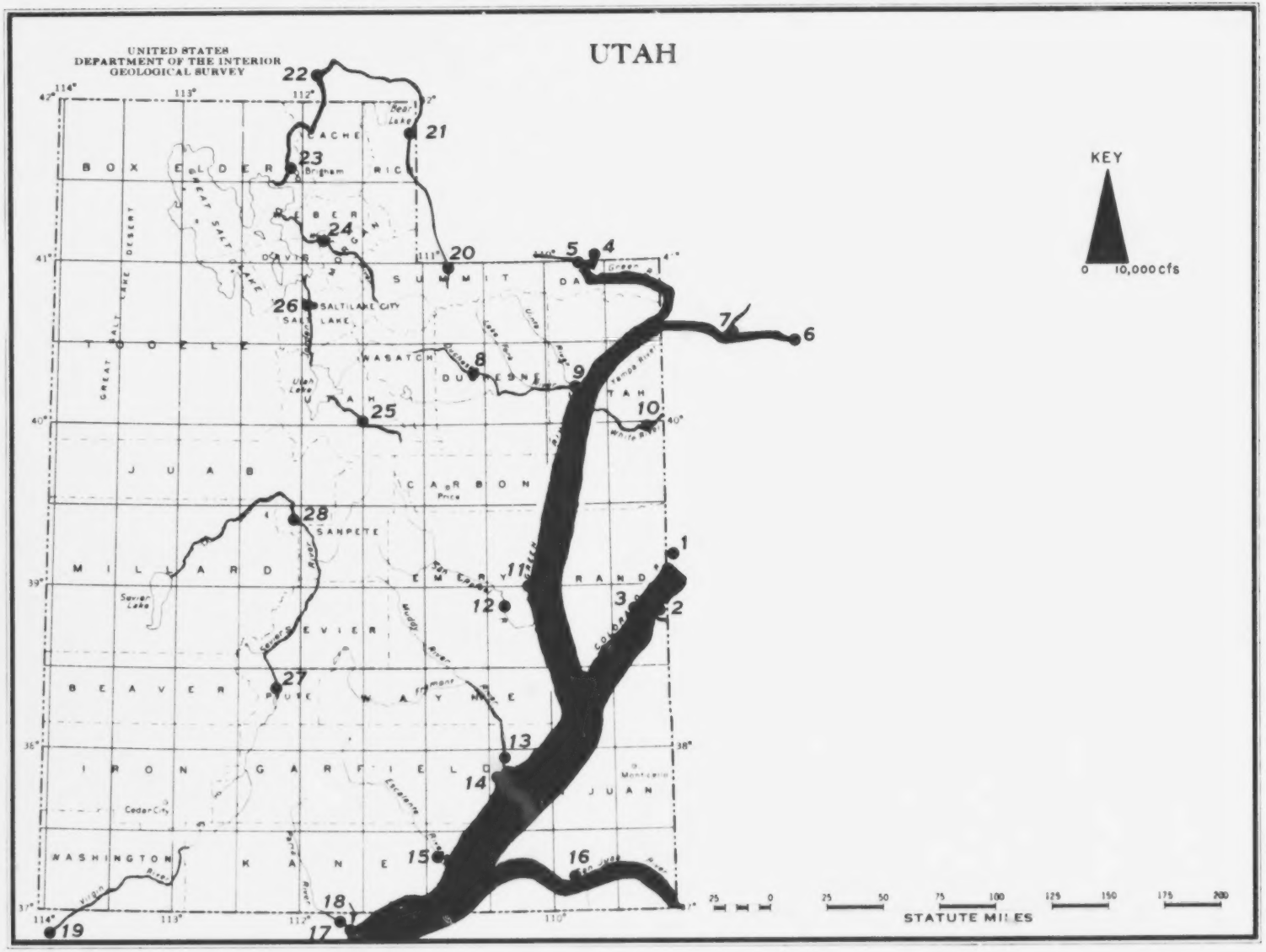

TEXAS
KEY
STATUTE MILES
GULF OF MEXICO
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

TEXAS

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	N. Canadian, Guyman (Okla.)	2,139	1937-57	33.5	24,250	44,000	0
2	Canadian, Logan (N. Mex.)	11,141	1938-56	295	213,600	219,000	0
3	Canadian, Amarillo	19,445	1924-5 1938-57	472	341,700	135,000	0
4	Canadian, Canadian	22,866	1938-57	622	450,300	122,000	0
5	Salt Fk. Red, Wellington	1,222	1952-57	92	66,610	146,000	0.1
6	Quitaque, Quitaque	293	1945-57	7.68	5,560	6,060	1.1
7	Wichita, Wichita Falls	3,140	1900-1 1938-57	342	247,600	17,800	6
8	Red, Terral	28,723	1938-57	2,710	1,962,000	197,000	43
9	Red, Arthur City	44,531	1905-11 1936-57	8,980	6,501,000	400,000	130
10	Sabine, Emory	965	1952-57	507	367,100	74,000	0
11	Bayou Anacoco, Kosepine (La.)	366	1951-57	460	333,000	64,300	5.5
12	Sabine, Ruliff	9,440	1924-57	8,804	6,374,000	121,000	270
13	Neuches, Evadale	7,908	1904-6 1923-57	6,229	4,510,000	92,100	63
14	Trinity, Dallas	6,120	1903-57	1,498	1,084,000	184,000	1.2
15	Trinity, Romayor	17,192	1924-57	7,333	5,309,000	111,000	102
16	Brazos, Seymour	14,490	1923-57	443	320,700	95,400	0
17	Brazos, Waco	28,500	1898-1957	2,550	1,846,000	246,000	0
18	Lampasas, Youngsport	1,242	1924-57	272	196,900	84,000	0
19	Brazos, Richmond	44,000	1903-5 1922-57	7,257	5,254,000	119,000	374
20	Colorado, Colo. City	4,082	1946-57	74.7	54,080	24,900	0
21	Colorado, San Saba	30,600	1916-19 1920-22	1,475	1,068,000	224,000	0
22	Llano, Llano	4,233	1939-57	270	195,500	232,000	0
23	Colorado, Wharton	41,380	1919-21 1922-25 1938-57	2,792	2,021,000	159,000	0
24	Guadalupe, Victoria	5,161	1935-57	1,466	1,061,000	179,000	14
25	San Antonio, Goliad	3,918	1924-28 1939-57	503	364,200	33,800	1.2
26	Nueces, Laguna	764	1923-57	128	92,670	307,000	2.6
27	Frio, Calliham	5,491	1924-25 1932-57	243	175,900	109,000	0
28	Nueces, Mathis	16,660	1939-57	843	610,300	49,400	6.8
29	Rio Grande, El Paso	29,267	1924-57	686	496,703	13,500	0
30	Rio Grande, Johnson Ranch*	70,715	1936-57	1,412	1,022,372	58,800	0
31	Pecos, Red Bluff (N. Mex.)	19,540	1937-56	281	203,400	52,600	1.4
32	Pecos, Orla	21,300	1937-57	269	194,700	23,700	0
33	Pecos, Girvin	29,560	1939-57	162	117,300	20,000	4.3
34	Rio Grande, Laredo	135,976	1924-57	4,062	2,941,124	716,000	0
35	Rio Grande, Lower Brownville	182,215	1934-57	2,890	2,092,462	31,700	0

Water Bulletin No. 27 of International Boundary and Water Commission (U.S. & Mexico)


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UTAH
KEY
0 10,000 cfs
STATUTE MILES
SALT LAKE CITY
Brigham
Cedar City
Price
Vernal
Green River
Moab
Monticello
Bear Lake
Great Salt Lake
Utah Lake
Sevier Lake
Lake Powell
Colorado River
Green River
Duchesne River
White River
Virgin River
Escalante River
Muddy River
Sevier River
Fremont River
San Juan River
BOX ELDER
CACHE
RICH
WEBER
DAVIS
SUMMIT
DAGGETT
TOOELE
SALT LAKE
WASATCH
DUCHESNE
UINTAH
JUAB
CARBON
SANPETE
EMERY
GRAND
MILLARD
SEVIER
PIUTE
WAYNE
BEAVER
IRON
GARFIELD
SAN JUAN
WASHINGTON
KANE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

UTAH

Flow of Selected Streams

No.	River and station	DRAINAGE AREA (Sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Colorado, Colorado-Utah State line	17,900	1951-57	6,088	4,408,000	56,800	960
2	Dolores, Cisco	-	1950-57	759	549,500	11,100	3.4
3	Colorado, Cisco	24,100	1911-57	8,174	5,918,000	76,800	558
4	Green, Linwood	14,300	1928-57	1,979	1,434,000	18,000	196
5	Henrys Fork, Linwood	531	1928-57	77.3	56,000	6,750	0
6	Yampa, Maybell (Colo.)	3,410	1916-57	1,587	1,149,000	17,900	2
7	Little Snake, Lily (Colo.)	3,730	1921-57	586	424,200	14,200	0
8	Duchesne, Tabiona	352	1918-57	209	151,300	2,500	27
9	Duchesne, Randlett	3,920	1942-57	640	463,300	8,790	9.7
10	White, Watson	4,020	1923-57	727	526,300	8,160	53
11	Green, Green River	40,600	1894-99 1904-57	6,637	4,805,000	68,100	255
12	San Rafael, Green	1,690	1909-18 1945-57	193	139,700	12,000	0
13	Dirty Devil, Hite	-	1948-57	102	73,840	12,800	0
14	Colorado, Hite	76,600	1947-57	13,310	9,636,000	105,600	2,400
15	Escalante, Escalante	2,010	1950-55	85.2	61,680	14,600	4.4
16	San Juan, Bluff	23,000	1914-57	2,820	2,042,000	70,000	0
17	Colorado, Lees Ferry (Ariz.)	107,900	1911-57	18,240	13,210,000	220,000	750
18	Paria, Lees Ferry (Ariz.)	1,570	1923-57	30.8	22,300	16,100	0
19	Virgin, Littlefield (Ariz.)	5,090	1929-57	238	172,300	22,000	50
20	Bear, Utah-Wyoming State line	176	1942-57	191	138,300	2,800	16
21	Bear, Randolph	1,640	1944-57	209	151,300	2,660	5.2
22	Bear, Preston (Idaho)	4,300	1944-57	885	640,700	8,500	0.6
23	Bear, Corinne	6,800	1949-57	1,687	1,221,000	7,200	86
24	Weber, Gateway	1,610	1920-57	586	424,200	7,980	45
25	Spanish Fork, Thistle	490	1908-25 1933-57	93.3	67,550	1,800	10
26	Jordan, Salt Lake	-	1943-57	150	108,600	384	0
27	Sevier, Marysvale	2,440	1912-57	231	167,200	2,600	0
28	Sevier, Juab	5,120	1911-57	240	173,800	2,140	0

VERMONT AND NEW HAMPSHIRE

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Androscoggin, Errol (N.H.)	1,045	1905-57	1,873	1,360,000	15,700	-
2	Androscoggin, Gorham (N.H.)	1,363	1913-57	2,428	1,760,000	20,000	795
3	Saco, Conway (N.H.)	386	1903-9 1929-57	923	668,000	43,900	40
4	Ossipee, Effingham Falls (N.H.)	330	1942-57	726	526,000	11,700	11
5	Salmon Falls, South Lebanon (Me.)	147	1929-57	239	173,000	5,490	4.7
6	Pemigewasset, Woodstock (N.H.)	193	1939-57	515	373,000	22,800	42
7	Winnipesaukee, Tilton (N.H.)	471	1937-57	698	505,000	3,810	48
8	Contoocook, Penacook (N.H.)	766	1928-57	1,259	912,000	46,800	44
9	Merrimack, Manchester (N.H.)	3,092	1936-57	5,312	3,850,000	102,500	147
10	Connecticut, North Stratford (N.H.)	799	1930-57	1,549	1,120,000	28,700	112
11	Passumpsic, Passumpsic (Vt.)	436	1928-57	727	526,000	16,000	13
12	Ammonoosuc, Bath (N.H.)	395	1935-57	672	486,000	27,900	35
13	White, West Hartford (Vt.)	690	1915-57	1,194	864,000	120,000	35
14	Connecticut, White River Junction (Vt.)	4,092	1911-57	7,182	5,200,000	136,000	115
15	West, Newfane (Vt.)	308	1919-23 1928-57	617	447,000	52,300	13
16	Connecticut, Vernon (Vt.)	6,266	1944-57	10,720	7,760,000	176,000	99
17	Ashuelot, Hinsdale (N.H.)	420	1907-11 1914-57	656	475,000	18,500	10
18	Deerfield, Charlemont (Mass.)	362	1913-57	898	650,000	56,300	5
19	Poultney, Fair Haven (Vt.)	187	1928-57	248	180,000	14,800	2.9
20	Otter Creek, Middlebury (Vt.)	628	1903-6 1910-19 1928-56	985	713,000	11,000	100
21	Winooski, Essex Junction (Vt.)	1,044	1928-56	1,675	1,210,000	45,300	70
22	Lamoille, East Georgia (Vt.)	686	1929-56	1,220	883,000	23,200	91
23	Missisquoi, Richford (Vt.)	479	1911-19 1928-56	910	659,000	17,200	8
24	Richelieu, Chambly (Que.)	8,440	1875-1916	12,700	9,190,000	-	-

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

VIRGINIA

KEY

0 10,000 cfs

VIRGINIA

STATUTE MILES

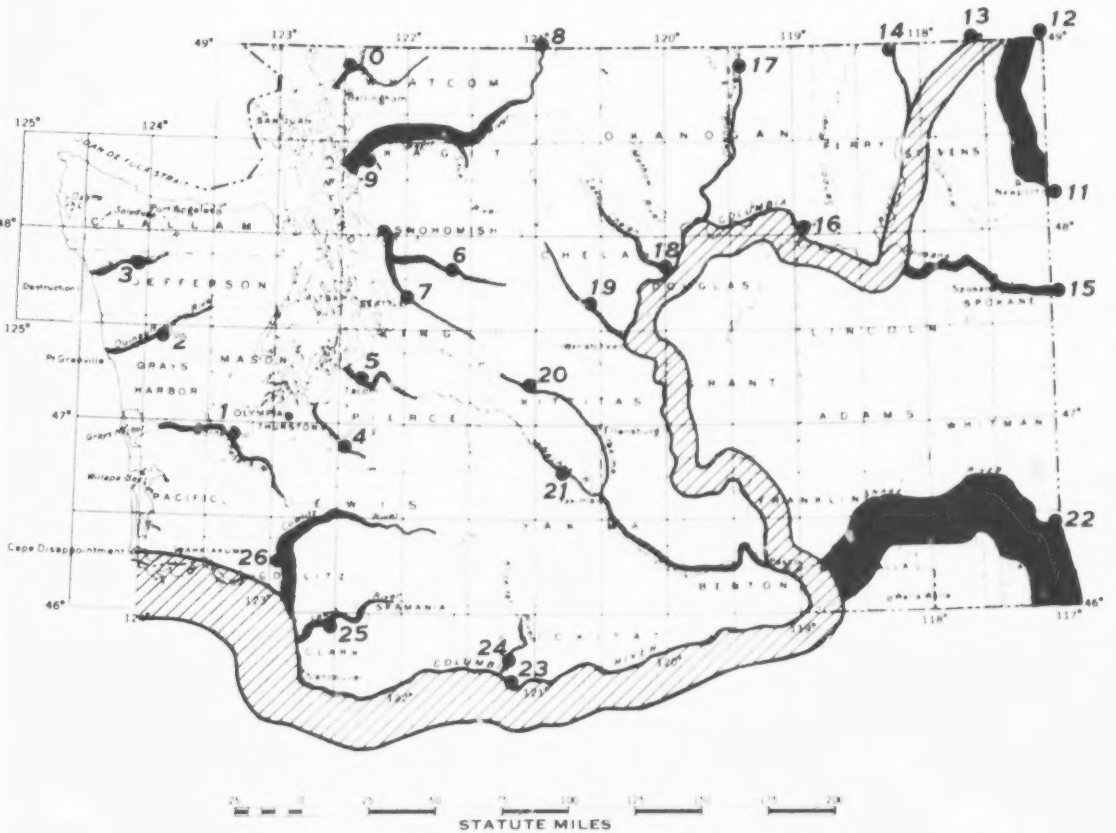
VIRGINIA

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	North, Burketown	375	1926-56	380	275,000	62,600	20
2	Middle, Grottoes	360	1927-56	307	222,000	24,500	22
3	South Fork Shenandoah, Front Royal	1,638	1899-1905 1930-56	1,643	1,190,000	130,000	59
4	North Fork Shenandoah, Strasburg	772	1925-56	577	418,000	100,000	41
5	Shenandoah, Millville (W.Va.)	3,040	1928-56	2,547	1,840,000	230,000	59
6	Potomac, Point of Rocks (Md.)	9,651	1896-1956	9,378	6,790,000	480,000	540
7	Goose Creek, Leesburg	338	1930-56	303	219,000	45,000	0.4
8	Potomac (Washington, D.C.)	11,560	1930-56	11,260	8,150,000	484,000	448
9	Occoquan Creek, Occoquan	546	1913-15 1921-23 1937-55	490	355,000	37,000	1
10	Rappahannock, Remington	616	1942-56	671	486,000	45,100	5
11	Rapidan, Culpeper	465	1930-56	524	379,000	58,100	2.1
12	Rappahannock, Fredericksburg	1,599	1907-56	1,670	1,210,000	140,000	5
13	Pamunkey, Hanover	1,072	1942-56	960	695,000	20,900	15
14	Mattaponi, Beulahville	619	1941-56	562	407,000	8,700	7.3
15	Jackson, Falling Spring	409	1925-56	479	347,000	24,700	58
16	James, Lick Run	1,369	1925-56	1,566	1,130,000	66,600	153
17	Maury, Buena Vista	649	1939-56	661	479,000	22,400	20
18	James, Scottsville	4,571	1925-56	5,102	3,690,000	133,000	307
19	Rivanna, Palmyra	675	1934-56	715	518,000	78,000	11
20	James, Richmond	6,757	1935-56	7,437	5,380,000	175,000	46
21	Appomattox, Petersburg	1,335	1927-30 1931-56	1,196	866,000	28,000	19
22	Nottoway, Sebrell	1,451	1941-56	1,169	846,000	25,000	12
23	Roanoke, Toshes	1,020	1925-56	996	721,000	70,000	55
24	Smith, Martinsville	374	1929-56	449	325,000	39,000	3.8
25	Dan River, Danville	2,050	1934-56	2,303	1,670,000	75,000	40
26	Roanoke, Buggs Island	7,780	1947-56	7,589	5,490,000	76,000	152
27	New, Galax	1,131	1930-57	1,780	1,290,000	141,000	193
28	New, Glenlyn	3,768	1927-57	4,911	3,560,000	226,000	770
29	Russell Fork, Haysi	286	1927-57	320	232,000	46,600	0.2
30	North Fork Holston, Gate City	672	1932-57	841	609,000	28,700	37
31	Clinch, Speers Ferry	1,126	1920-57	1,572	1,140,000	45,300	42
32	Powell, Jonesville	319	1932-57	506	366,000	30,000	17

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WASHINGTON



KEY

0 50,000 cfs

0 200,000 cfs

STATUTE MILES

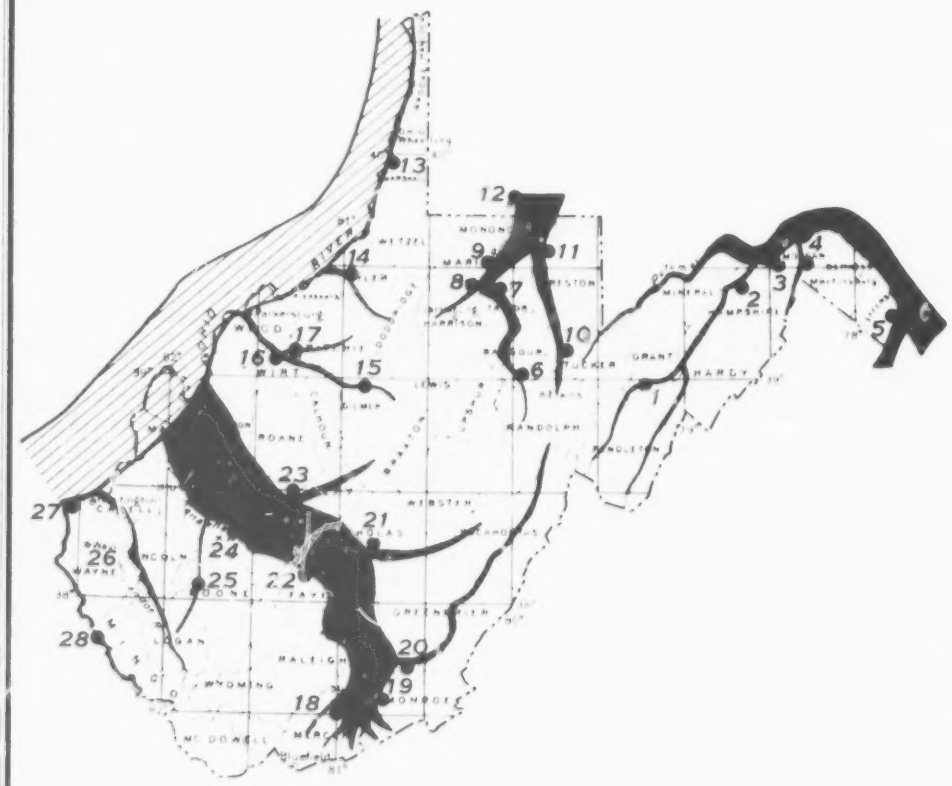
Washington

Flow of Selected Streams

No.	River and station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Chehalis, Porter	1,300	1952-57	4,362	3,158,000	31,700	164
2	Quinault, Quinault Lake	264	1911-57	2,762	2,000,000	50,200	276
3	Hoh, Spruce	208	1926-57	2,005	1,452,000	38,700	247
4	Nisqually, McKenna	445	1941-57	1,782	1,290,000	20,800	176
5	Puyallup, Puyallup	948	1914-57	3,297	2,387,000	57,000	306
6	Skykomish, Gold Bar	535	1928-57	3,850	2,787,000	88,700	315
7	Snoqualmie, Carnation	608	1928-57	3,745	2,711,000	59,900	396
8	Skagit, Hope (British Columbia)	357	1916-22 1934-55	999	723,200	10,200	81
9	Skagit, Mt. Vernon	3,060	1940-57	16,170	11,710,000	144,000	2,740
10	Nooksack, Lynden	636	1944-57	3,725	2,697,000	46,200	595
11	Pend Oreille, Newport	24,200	1903-41 1952-57	25,150	18,210,000	136,000	2,200
12	Pend Oreille, Metaline Falls	25,200	1912-57	26,570	19,240,000	171,300	2,500
13	Columbia, international boundary	59,700	1937-57	97,130	70,320,000	550,100	18,000
14	Kettle, Laurier	3,800	1929-57	2,852	2,065,000	35,000	88
15	Spokane, Post Falls (Idaho)	3,840	1913-57	6,113	4,426,000	50,100	120
16	Columbia, Grand Coulee	74,100	1913-57	108,900	78,840,000	637,800	15,300
17	Okanogan, Oroville	3,210	1942-57	734	531,400	3,430	-
18	Chelan, Chelan	951	1904-57	2,041	1,478,000	16,000	0
19	Wenatchee, Peshastin	1,000	1928-29 1929-57	3,025	2,190,000	32,300	183
20	Yakima, Cle Elum	500	1906-57	1,988	1,439,000	25,600	46
21	Naches, Naches	941	1908-57	1,712	1,239,000	32,300	1
22	Snake, Clarkson	103,200	1915-57	48,990	35,470,000	369,000	10,600
23	Columbia, The Dalles (Oregon)	237,000	1878-1957	195,500	141,500,000	1,240,000	35,000
24	Klickitat, Pitt	1,290	1909-11 1928-57	1,510	1,152,000	25,500	466
25	Lewis, Ariel	731	1923-57	4,705	3,406,000	129,000	1
26	Coulitz, Castle Rock	2,238	1927-57	9,011	6,524,000	139,000	998

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

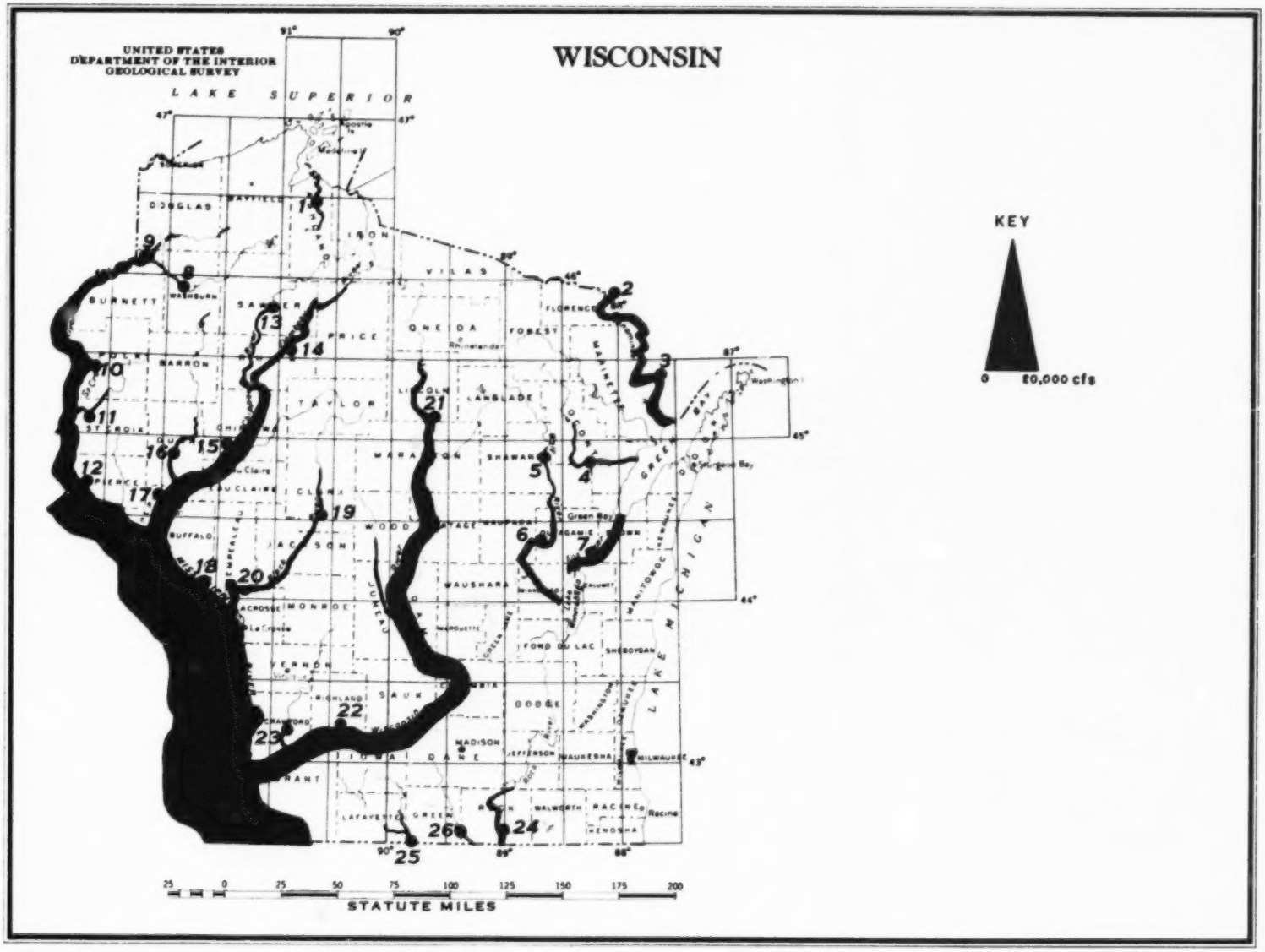
WEST VIRGINIA



KEY

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	RECORD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE-FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	South Branch Potomac, Petersburg	642	1928-56	690	500,000	62,000	44
2	South Branch Potomac, Springfield	1,471	1899-1901 1903-05 1928-56	1,267	917,000	143,000	29
3	Potomac, Paw Paw	3,109	1938-56	3,152	2,280,000	111,000	216
4	Cacapon, Cacapon	677	1923-56	572	414,000	87,600	35
5	Shenandoah, Millville	3,040	1928-56	2,547	1,840,000	230,000	194
6	Tygart, Belington	408	1907-57	799	578,000	18,400	0.1
7	Tygart, Colfax	1,366	1939-57	2,608	1,890,000	22,500	129
8	West Fork, Enterprise	759	1907-16 1933-57	1,171	848,000	31,400	3
9	Monongahela, Hoult	2,388	1915-26 1938-57	4,120	2,980,000	91,500	195
10	Cheat, Parsons	718	1914-57	1,660	1,200,000	52,100	9
11	Cheat, Pisgah	1,354	1927-57	2,970	2,150,000	127,000	13
12	Monongahela, Greensboro (Pa.)	4,407	1938-57	8,194	5,930,000	140,000	204
13	Ohio, Bellaire (Ohio)	25,170	1941-57	40,970	29,700,000	412,000	—
14	Middle Island, Little	458	1928-57	617	447,000	25,000	0
15	Little Kanawha, Glenville	386	1928-57	600	434,000	20,400	0
16	Little Kanawha, Palestine	1,515	1939-57	2,083	1,510,000	46,300	2
17	Hughes, Cisko	452	1928-31 1938-57	579	419,000	31,700	0
18	Bluestone, Pipestem	363	1950-57	465	337,000	16,100	7
19	New, Bluestone Dam	4,604	1923-57	5,503	3,980,000	232,000	178
20	Greenbrier, Alderson	1,357	1895-1957	1,994	1,440,000	77,500	24
21	Gauley, Summersville	680	1908-16 1928-57	1,530	1,110,000	77,700	1
22	Kanawha, Kanawha Falls	8,367	1877-1957	12,590	9,120,000	320,000	640
23	Elk, Queen Shoals	1,145	1928-57	1,941	1,410,000	72,000	0.3
24	Kanawha, Charleston	10,419	1939-57	14,150	10,200,000	216,000	1,030
25	Little Coal, Danville	270	1930-57	334	242,000	42,800	0
26	Guyandot, Branchland	1,226	1915-17 1929-57	1,567	1,130,000	40,400	4
27	Ohio, Huntington	55,900	1934-57	77,580	56,200,000	654,000	3,200
28	Tug Fork, Kermit	1,185	1934-57	1,319	955,000	61,300	23


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WISCONSIN
LAKE SUPERIOR
LAKE MICHIGAN
KEY
0 50,000 cfs
STATUTE MILES
25 0 25 50 75 100 125 150 175 200
DOUGLAS
BAYFIELD
IRON
VILAS
BURNETT
WASHBURN
SAWYER
PRICE
ONEIDA
FOREST
FLORENCE
MARINETTE
BARRON
TAYLOR
LINCOLN
LANGLADE
OCONTO
SHAWANO
PIERCE
PEPIN
EAU CLAIRE
CLARK
MARATHON
WOOD
PORTAGE
WAUPACA
OUTAGAMIE
BUFFALO
JACKSON
WAUSHARA
WINNEBAGO
MONROE
LA CROSSE
FOND DU LAC
SHEBOYGAN
VERNON
RICHLAND
SAUK
DODGE
COLUMBIA
DANE
MADISON
JEFFERSON
WAUKESHA
MILWAUKEE
GRANT
IOWA
LAFAYETTE
GREEN
ROCK
WALWORTH
RACINE
KENOSHA
Racine
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26

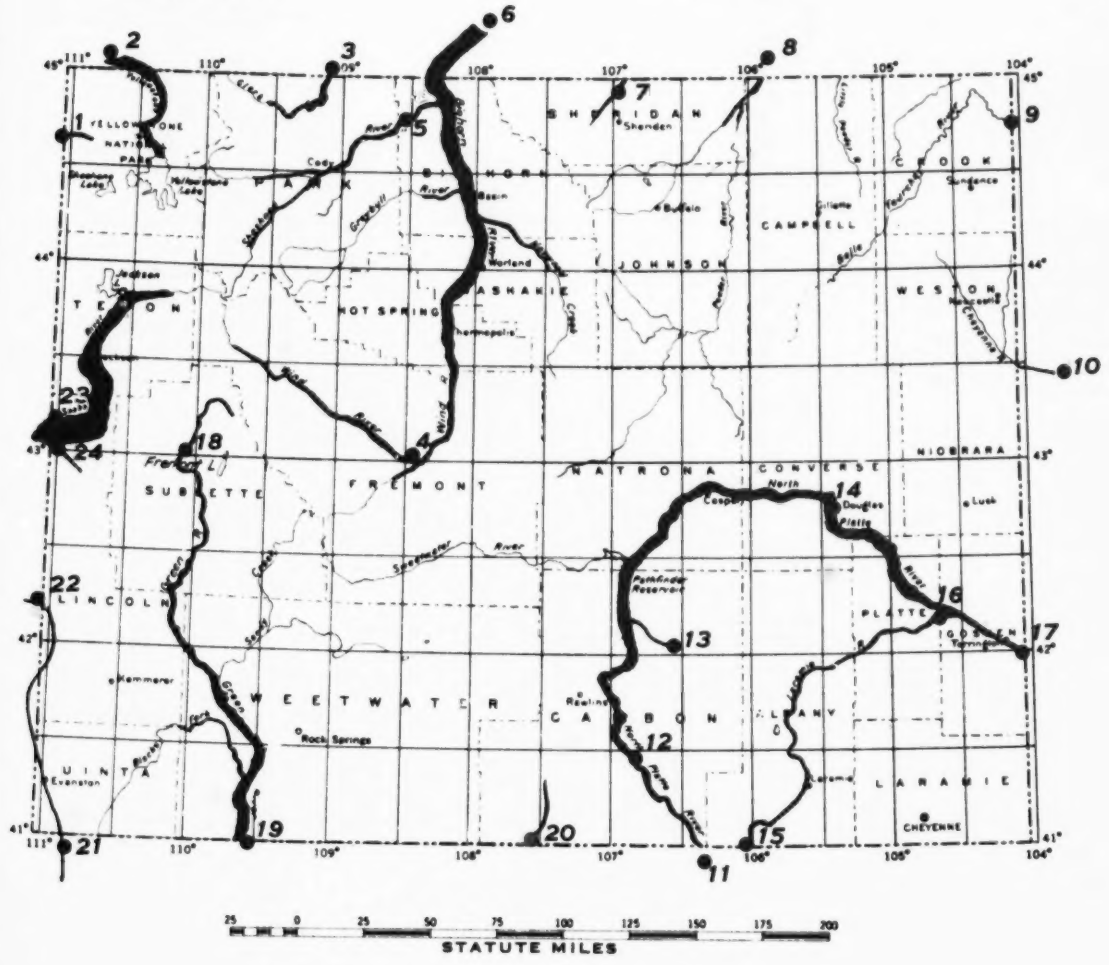
WISCONSIN

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq. mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Bad, Odanah	611	1914-22 1948-56	643	466,000	16,500	50
2	Menominee, Iron Mountain (Mich.)	1,790	1914-56	1,821	1,320,000	16,700	154
3	Menominee, Koss (Mich.)	3,790	1907-8 1913-56	3,165	2,290,000	23,200	162
4	Oconto, Gillett	678	1907-8 1914-56	572	414,000	-	93
5	Wolf, Kashena Falls	812	1907-8 1911-56	766	554,000	4,390	91
6	Wolf, New London	2,240	1896-1956	1,720	1,240,000	15,500	150
7	Fox, Wrightstown	6,150	1896-1956	4,214	3,050,000	24,000	138
8	Namekagon, Trego	503	1927-57	466	337,000	5,200	113
9	St. Croix, Danbury	1,588	1914-57	1,291	935,000	10,200	393
10	St. Croix, St. Croix Falls	5,930	1902-5 1908-57	4,047	2,930,000	54,900	75
11	Apple, Somerset	555	1901-57	306	222,000	2,460	7
12	Mississippi, Prescott	44,800	1928-57	15,110	10,900,000	155,000	1,380
13	Chippewa, Winter	787	1913-57	714	517,000	7,520	14
14	Flambeau, Ladysmith	1,823	1914-57	1,723	1,250,000	20,200	74
15	Chippewa, Chippewa Falls	5,600	1907-10 1913-57	4,985	3,610,000	102,000	22
16	Red Cedar, Menomonie	1,760	1913-23 1925-57	1,217	881,000	40,000	21
17	Chippewa, Durand	9,010	1928-57	7,372	5,340,000	101,000	1,020
18	Mississippi, Winona (Minn.)	59,200	1928-57	24,820	18,000,000	190,000	2,250
19	Black, Neillsville	756	1914-57	568	411,000	48,800	0.6
20	Black, Galesville	2,120	1932-57	1,637	1,180,000	58,000	180
21	Wisconsin, Merrill	2,780	1907-11 1912-57	2,598	1,880,000	49,400	90
22	Wisconsin, Muscoda	10,300	1914-57	8,526	6,170,000	80,800	2,000
23	Kickapoo, Steuben	690	1933-57	447	324,000	10,300	161
24	Rock, Afton	3,300	1914-57	1,735	1,260,000	13,000	42
25	Pecatonica, Martintown	1,040	1939-57	674	488,000	13,400	132
26	Sugar, Brodhead	527	1914-57	338	245,000	14,800	44

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WYOMING



WYOMING

Flow of Selected Streams

No.	River and Station	DRAINAGE AREA (sq.mi.)	PERIOD OF RECORD	AVERAGE DISCHARGE FOR PERIOD OF RECORD CFS	AVERAGE DISCHARGE FOR PERIOD OF RECORD ACRE FEET	EXTREMES Maximum Discharge (CFS)	EXTREMES Minimum Discharge (CFS)
1	Madison, West Yellowstone	419	1913-17 1918-21 1923-56	474	343,200	2,150	100
2	Yellowstone, Corwin Springs (Mont.)	2,630	1910-56	3,026	2,191,000	26,500	389
3	Clarks Fork, Chance (Mont.)	1,340	1934-56	916	663,200	10,900	48
4	Wind, Riverton	2,320	1906-08 1911-27 1928-56	1,028	744,300	12,300	10
5	Shoshone, Byron	2,300	1929-56	931	674,500	13,900	29
6	Bighorn, St. Xavier (Mont.)	19,600	1934-56	3,542	2,564,000	37,400	228
7	Tongue, Acme	894	1938-56	401	290,000	9,110	3.4
8	Powder, Moorhead (Mont.)	8,030	1929-56	468	338,800	15,300	0
9	Belle Fourche, Wyo.-S.Dak.(State line)	3,280	1946-56	86.6	62,700	3,620	0
10	Cheyenne, Edgemont (S. Dak.)	7,143	1928-32 1946-56	113	81,810	13,000	0
11	North Platte, North Gate (Colo.)	1,440	1915-56	445	322,200	6,720	19
12	North Platte, Saratoga	2,880	1903-06 1910-56	1,168	845,600	18,000	38
13	Medicine Bow, Hanna	2,310	1939-56	157	113,700	6,590	1.5
14	North Platte, Douglas	14,300	1929-39 1945-56	1,436	1,040,000	16,700	45
15	Laramie, Jelm	297	1904-05 1911-56	161	116,600	4,200	5.6
16	Laramie, Fort Laramie	4,600	1926-30 1932-50	95.2	68,900	4,280	0
17	North Platte, Wyo.-Neb. State line	22,100	1929-56	723	523,400	17,900	21
18	Green River, Warren Bridge	468	1931-57	511	370,200	4,460	31
19	Green River, Linwood (Utah)	14,300	1928-57	1,979	1,434,000	18,000	196
20	Little Snake, Dixon	988	1910-23 1938-57	534	386,600	9,600	0.2
21	Bear, Utah-Wyo. State line	176	1942-57	191	138,300	2,800	16
22	Bear, Border	2,490	1937-57	414	299,700	3,680	30
23	Snake, Alpine	3,465	1937-38 1953-57	4,782	3,462,000	26,800	740
24	Salt, Wyo.-Ida. State line	890	1934-54	726	526,000	3,520	216